



May 18, 2006

State of Utah  
Division of Oil, Gas & Mining  
Attn: Diana Whitney  
1594 West North Temple - Suite 1210  
P.O. Box 145801  
Salt Lake City, Utah 84114-5801

RE: Applications for Permit to Drill: Federal 5-19-9-16, 9-22-9-16, 3-23-9-16, 4-23-9-16, 11-23-9-16, 12-23-9-16, 13-23-9-16, 14-23-9-16, 15-23-9-16, and 16-23-9-16.

Dear Diana:

Enclosed find APD's on the above referenced wells. The proposed Federal 11-23-9-16 is an Exception Location. Our Land Department will send you the required Exception Location Letter. If you have any questions, feel free to give either Shon Mckinnon or myself a call.

Sincerely,

Mandie Crozier  
Regulatory Specialist

mc  
enclosures

**RECEIVED**

**MAY 19 2006**

**DIV. OF OIL, GAS & MINING**

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED  
OMB No. 1004-0136  
Expires January 31, 2004

5. Lease Serial No.

UTU-15855

6. If Indian, Allottee or Tribe Name

N/A

7. If Unit or CA Agreement, Name and No.

N/A

8. Lease Name and Well No.

Federal 15-23-9-16

9. API Well No.

43-013-3 3182

10. Field and Pool, or Exploratory

Monument Butte

11. Sec., T., R., M., or Blk. and Survey or Area

SW/SE Sec. 23, T9S R16E

12. County or Parish

Duchesne

13. State

UT

1a. Type of Work: ☒ DRILL

☐ REENTER

1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other

☒ Single Zone ☐ Multiple Zone

2. Name of Operator

Newfield Production Company

3a. Address

Route #3 Box 3630, Myton UT 84052

3b. Phone No. (include area code)

(435) 646-3721

4. Location of Well (Report location clearly and in accordance with any State requirements.)\*

At surface SW/SE 603' FSL 2162' FEL 578153X 40.010834  
At proposed prod. zone 4429151Y -110.084308

14. Distance in miles and direction from nearest town or post office\*

Approximatley 18.7 miles southwest of Myton, Utah

15. Distance from proposed\*  
location to nearest  
property or lease line, ft.

(Also to nearest drig. unit line, if any) Approx. 603' f/lse, NA' f/unit

16. No. of Acres in lease

1200.00

17. Spacing Unit dedicated to this well

40 Acres

18. Distance from proposed location\*  
to nearest well, drilling, completed,  
applied for, on this lease, ft.

Approx. 1049'

19. Proposed Depth

5916'

20. BLM/BIA Bond No. on file

UTB000192

21. Elevations (Show whether DF, KDB, RT, GL, etc.)

5784' GL

22. Approximate date work will start\*

3rd Quarter 2006

23. Estimated duration

Approximately seven (7) days from spud to rig release.

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, shall be attached to this form:

1. Well plat certified by a registered surveyor.

2. A Drilling Plan.

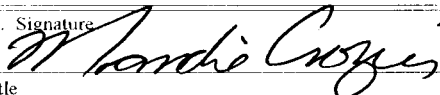
3. A Surface Use Plan (if the location is on National Forest System Lands, the  
SUPO shall be filed with the appropriate Forest Service Office).

4. Bond to cover the operations unless covered by an existing bond on file (see  
Item 20 above).

5. Operator certification.

6. Such other site specific information and/or plans as may be required by the  
authorized officer.

25. Signature



Name (Printed/Typed)

Mandie Crozier

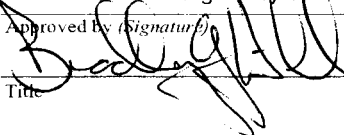
Date

5/18/06

Title

Regulatory Specialist

Approved by (Signature)



Name (Printed/Typed)

BRADLEY G. HILL  
ENVIRONMENTAL MANAGER

Date

05-25-06

Application approval does not warrant or certify the the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct  
operations thereon.

Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United  
States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

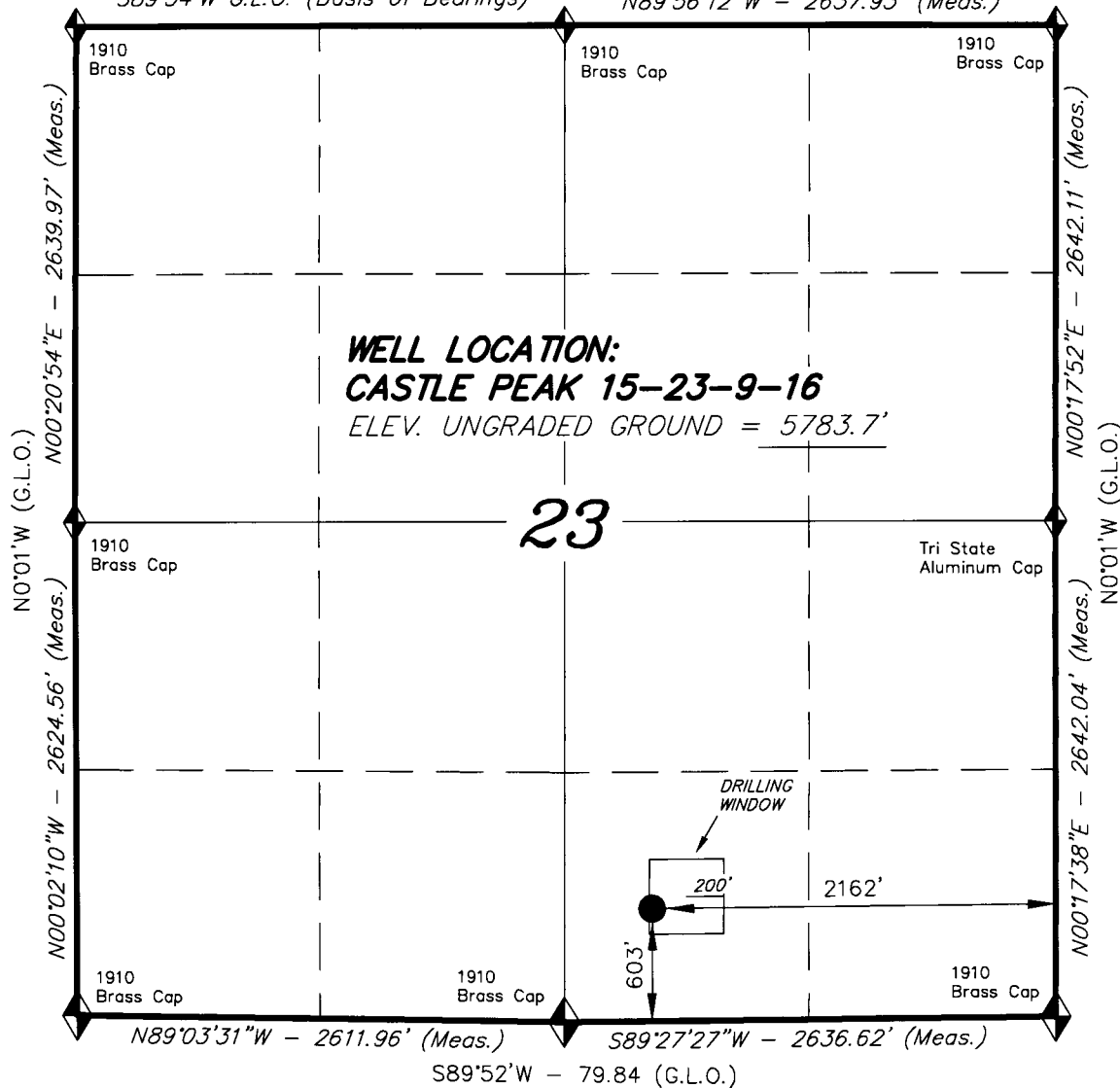
\*(Instructions on reverse)

Federal Approval of this  
Action Is Necessary

RECEIVED  
MAY 19 2006  
DIV. OF OIL, GAS & MINING

# T9S, R16E, S.L.B.&M.

2623.06' (Measured) S89°54'W - 79.82 (G.L.O.)  
S89°54'W G.L.O. (Basis of Bearings) N89°56'12"W - 2637.93' (Meas.)



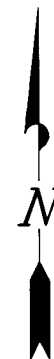
◆ = SECTION CORNERS LOCATED

BASIS OF ELEV;  
U.S.G.S. 7-1/2 min QUAD (MYTON SE)

**CASTLE PEAK 15-23-9-16**  
(Surface Location) NAD 83  
LATITUDE = 40° 00' 38.56"  
LONGITUDE = 110° 05' 05.75"

## NEWFIELD PRODUCTION COMPANY

WELL LOCATION, CASTLE PEAK 15-23-9-16,  
LOCATED AS SHOWN IN THE SW 1/4 SE 1/4  
OF SECTION 23, T9S, R16E, S.L.B.&M.  
DUCHESE COUNTY, UTAH.



THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS  
PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS  
MADE BY ME OR UNDER MY SUPERVISION AND THAT  
THE SAME ARE TRUE AND CORRECT TO THE BEST OF  
MY KNOWLEDGE AND BELIEF. No. 189377

STACY W. STEWART  
REGISTERED LAND SURVEYOR  
REGISTRATION No. 189377  
STATE OF UTAH

## TRI STATE LAND SURVEYING & CONSULTING

180 NORTH VERNAL AVE. - VERNAL, UTAH 84078  
(435) 781-2501

DATE SURVEYED: 4-19-06	SURVEYED BY: C.M.
DATE DRAWN: 04-24-06	DRAWN BY: F.T.M.
REVISED:	SCALE: 1" = 1000'

**NEWFIELD PRODUCTION COMPANY  
FEDERAL #15-23-9-16  
SW/SE SECTION 23, T9S, R16E  
DUCHESNE COUNTY, UTAH**

**ONSHORE ORDER NO. 1**

**DRILLING PROGRAM**

**1. GEOLOGIC SURFACE FORMATION:**

Uinta formation of Upper Eocene Age

**2. ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:**

Uinta	0' – 2221'
Green River	2221'
Wasatch	5916'

**3. ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERALS:**

Green River Formation 2221' – 5916' - Oil

**4. PROPOSED CASING PROGRAM**

Please refer to the Monument Butte Field Standard Operation Procedure (SOP).

**5. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:**

Please refer to the Monument Butte Field SOP. See Exhibit "C".

**6. TYPE AND CHARACTERISTICS OF THE PROPOSED CIRCULATION MUDS:**

Please refer to the Monument Butte Field SOP.

**7. AUXILIARY SAFETY EQUIPMENT TO BE USED:**

Please refer to the Monument Butte Field SOP.

**8. TESTING, LOGGING AND CORING PROGRAMS:**

Please refer to the Monument Butte Field SOP.

**9. ANTICIPATED ABNORMAL PRESSURE OR TEMPERATURE:**

The anticipated maximum bottom hole pressure is 1800 psi. It is not anticipated that abnormal temperatures will be encountered.

**10. ANTICIPATED STARTING DATE AND DURATION OF THE OPERATIONS:**

Please refer to the Monument Butte Field SOP.

**NEWFIELD PRODUCTION COMPANY  
FEDERAL #15-23-9-16  
SW/SE SECTION 23, T9S, R16E  
DUCHESNE COUNTY, UTAH**

**ONSHORE ORDER NO. 1**

**MULTI-POINT SURFACE USE & OPERATIONS PLAN**

**1. EXISTING ROADS**

See attached Topographic Map "A"

To reach Newfield Production Company well location site Federal #15-23-9-16 located in the SW 1/4 SE 1/4 Section 23, T9S, R16E, Duchesne County, Utah:

Proceed southwesterly out of Myton, Utah along Highway 40 - 1.6 miles  $\pm$  to the junction of this highway and UT State Hwy 53; proceed southeasterly - 11.7 miles  $\pm$  to it's junction with an existing dirt road to the southwest; proceed southwesterly - 5.3 miles  $\pm$  to it's junction with the beginning of the proposed access road to the southeast; proceed southeasterly along the proposed access road - 440'  $\pm$  to the proposed well location.

**2. PLANNED ACCESS ROAD**

See Topographic Map "B" for the location of the proposed access road.

**3. LOCATION OF EXISTING WELLS**

Refer to Exhibit "B".

**4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES**

All permanent surface equipment will be painted Carlsbad Canyon.  
Please refer to the Monument Butte Field Standard Operating Procedure (SOP).

**5. LOCATION AND TYPE OF WATER SUPPLY**

Please refer to the Monument Butte Field SOP. See Exhibit "A".

**6. SOURCE OF CONSTRUCTION MATERIALS**

Please refer to the Monument Butte Field SOP.

**7. METHODS FOR HANDLING WASTE DISPOSAL**

Please refer to the Monument Butte Field SOP.

**8. ANCILLARY FACILITIES**

Please refer to the Monument Butte Field SOP.

9. **WELL SITE LAYOUT**

See attached Location Layout Diagram.

10. **PLANS FOR RESTORATION OF SURFACE**

Please refer to the Monument Butte Field SOP.

11. **SURFACE OWNERSHIP** - Bureau Of Land Management (Proposed location and access roads leading to).

12. **OTHER ADDITIONAL INFORMATION**

The Archaeological Resource Survey and Paleontological Resource Survey for this area are attached. MOAC Report #05-270, 9/7/05. Paleontological Resource Survey prepared by, Wade E. Miller, 9/28/05. See attached report cover pages, Exhibit "D".

For the Federal #15-23-9-16 Newfield Production Company requests 440' of disturbed area be granted in Lease UTU-15855 to allow for construction of the proposed access road. **Refer to Topographic Map "B"**. The proposed access road will be an 18' crown road (9' either side of the centerline) with drainage ditches along either side of the proposed road whether it is deemed necessary in order to handle any run-off from normal meteorological conditions that are prevalent to this area. The maximum grade will be less than 8%. There will be no culverts required along this access road. There will be barrow ditches and turnouts as needed along this road. There are no fences encountered along this proposed road. There will be no new gates or cattle guards required. All construction material for this access road will be borrowed material accumulated during construction of the access road.

Newfield Production Company requests 440' of disturbed area be granted in Lease UTU-15855 to allow for construction of the proposed gas lines. It is proposed that the disturbed area will be 50' wide to allow for construction of a 6" gas gathering line, and a 3" poly fuel gas line. Both lines will tie in to the existing pipeline infrastructure. **Refer to Topographic Map "C."** For a ROW plan of development, please refer to the Monument Butte Field SOP.

Newfield Production Company requests 440' of disturbed area be granted in Lease UTU-15855 to allow for construction of the proposed water lines. It is proposed that the disturbed area will be 50' wide to allow for construction of a buried 3" steel water injection line and a buried 3" poly water return line. **Refer to Topographic Map "C."** For a ROW plan of development, please refer to the Monument Butte Field SOP.

**Water Disposal**

Immediately upon first production, all produced water will be confined to a steel storage tank. If the production water meets quality guidelines, it is transported to the Ashley, Monument Butte, Jonah, and Beluga water injection facilities by company or contract trucks. Subsequently, the produced water is injected into approved Class II wells to enhance Newfield's secondary recovery project.

Water not meeting quality criteria, is disposed at Newfield's Pariette #4 disposal well (Sec. 7, T9S R19E) or at State of Utah approved surface disposal facilities.

**Threatened, Endangered, And Other Sensitive Species**

None.

**Reserve Pit Liner**

A 12 mil liner with felt is required. Please refer to the Monument Butte Field SOP.

**Location and Reserve Pit Reclamation**

Please refer to the Monument Butte Field SOP.

The following seed mixture will be used on the topsoil stockpile, to the recontoured surface of the reserve pit, and for final reclamation: (All poundages are in pure live seed)

Western Wheatgrass	<i>Pascopyrum Smithii</i>	6 lbs/acre
Galletta Grass	<i>Hilaria Jamesii</i>	6 lbs/acre

**Details of the On-Site Inspection**

The proposed Federal #15-23-9-16 was on-sited on 3/22/06. The following were present: Shon Mckinnon (Newfeild Production), Nate West (Bureau of Land Management), and Brandon McDonald (Bureau of Landmanagement). Weather conditions were clear and ground cover was 100% open.

**13. LESSEE'S OR OPERATORS REPRESENTATIVE AND CERTIFICATION**

Representative

Name: Shon Mckinnon  
Address: Route #3 Box 3630  
Myton, UT 84052  
Telephone: (435) 646-3721

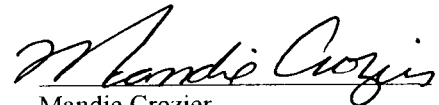
Certification

Please be advised that NEWFIELD PRODUCTION COMPANY is considered to be the operator of well #15-23-9-16 SW/SE Section 23, Township 9S, Range 16E: Lease UTU-15855 Duchesne County, Utah: and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond coverage is provided by US Specialty Insurance #B001832.

I hereby certify that the proposed drillsite and access route have been inspected, and I am familiar with the conditions which currently exist; that the statements made in this plan are true and correct to the best of my knowledge; and that the work associated with the operations proposed here will be performed by Newfield Production Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

5/18/06

Date

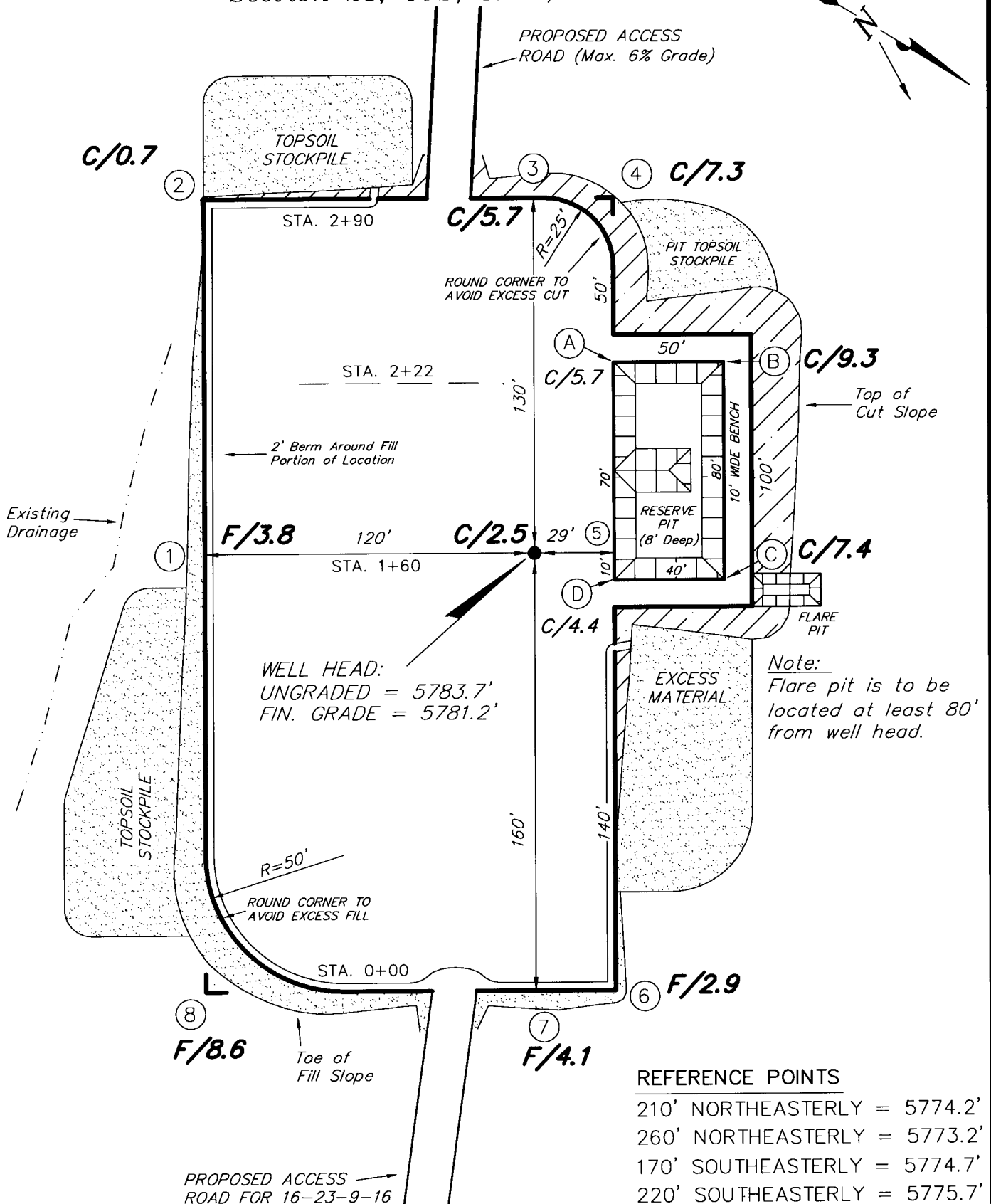
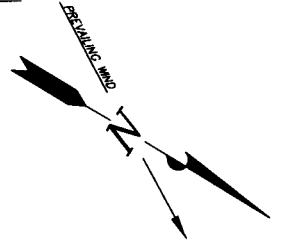


Mandie Crozier  
Regulatory Specialist  
Newfield Production Company

# NEWFIELD PRODUCTION COMPANY

## CASTLE PEAK 15-23

Section 23, T9S, R16E, S.L.B.&M.



SURVEYED BY: C.M.

SCALE: 1" = 50'

DRAWN BY: F.T.M.

DATE: 04-24-06

**Tri State**  
Land Surveying, Inc.

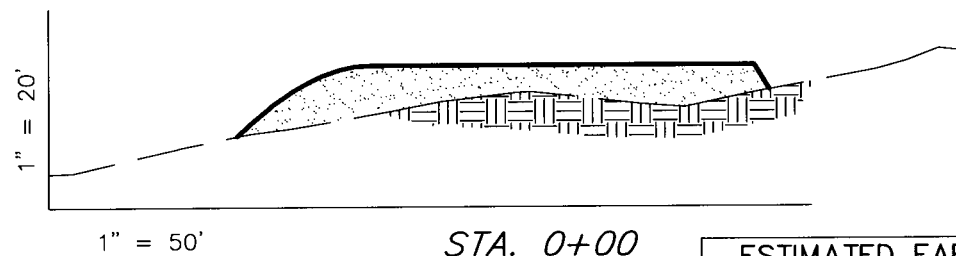
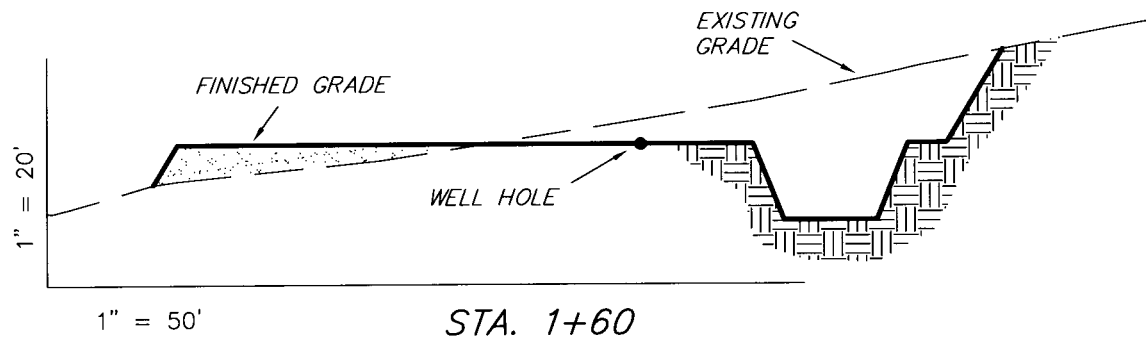
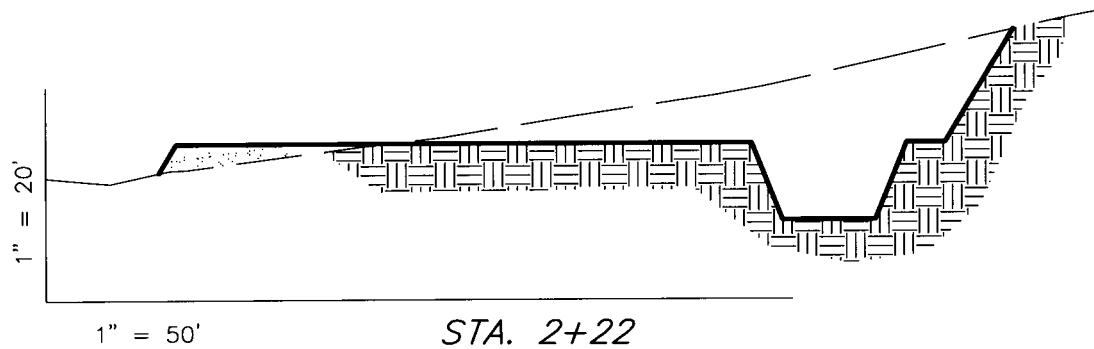
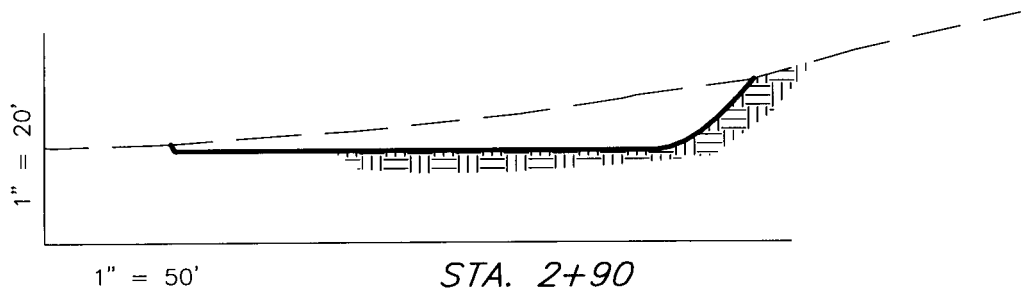
(435) 781-2501

180 NORTH VERNAL AVE. VERNAL, UTAH 84078

# NEW FIELD PRODUCTION COMPANY

## CROSS SECTIONS

### CASTLE PEAK 15-23



NOTE:  
UNLESS OTHERWISE NOTED  
ALL CUT/FILL SLOPES ARE  
AT 1.5:1

ESTIMATED EARTHWORK QUANTITIES (No Shrink or swell adjustments have been used) (Expressed in Cubic Yards)				
ITEM	CUT	FILL	6" TOPSOIL	EXCESS
PAD	3,180	3,180	Topsoil is not included in Pad Cut	0
PIT	640	0		640
TOTALS	3,820	3,180	1,030	640

SURVEYED BY: C.M.

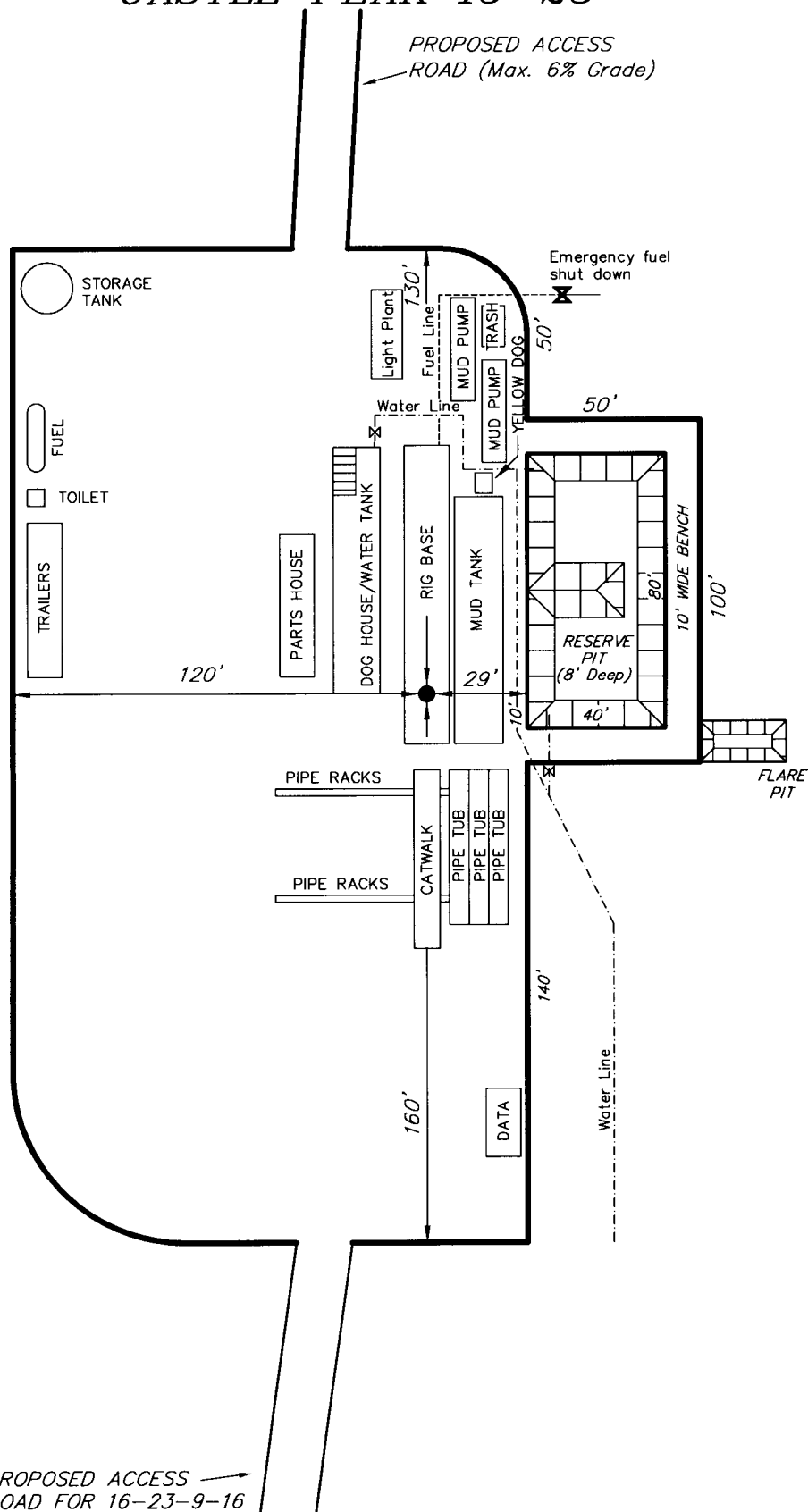
SCALE: 1" = 50'

DRAWN BY: F.T.M.

DATE: 04-24-06

**Tri State**  
Land Surveying, Inc.  
180 NORTH VERNAL AVE. VERNAL, UTAH 84078  
(435) 781-2501

*NEWFIELD PRODUCTION COMPANY*  
*TYPICAL RIG LAYOUT*  
*CASTLE PEAK 15-23*



SURVEYED BY: C.M.

SCALE:  $1'' = 50'$

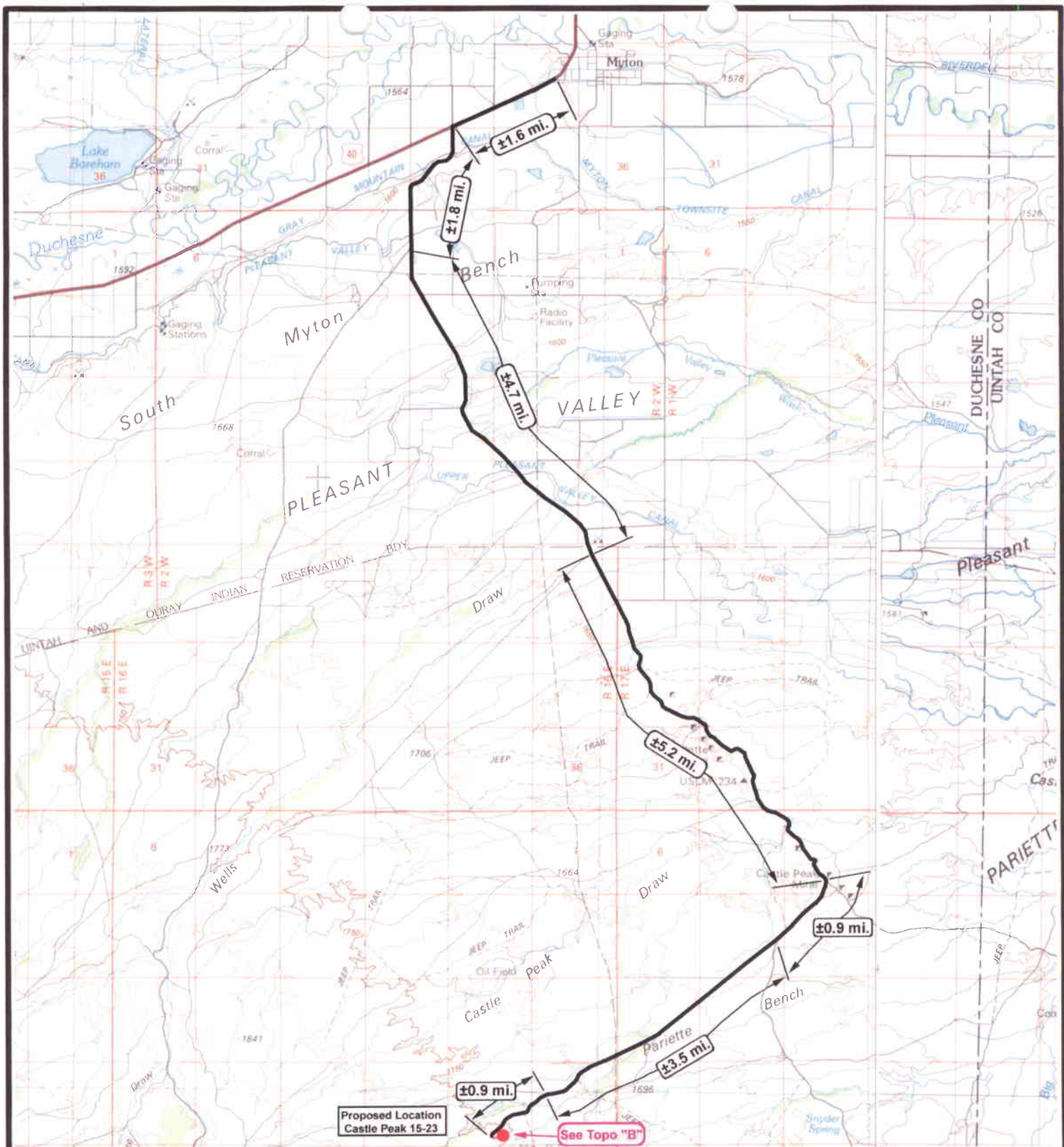
DRAWN BY: F.T.M.

DATE: 04-24-06

**Tri State**  
**Land Surveying, Inc.**  
180 NORTH VERNAL AVE. VERNAL, UT

(435) 781-2501

180 NORTH VERNAL AVE. VERNAL, UTAH 84078



**NEWFIELD**  
Exploration Company

**Castle Peak 15-23-9-16**  
**SEC. 23, T9S, R16E, S.L.B.&M.**



**Tri-State**  
Land Surveying Inc.

(435) 781-2501  
180 North Vernal Ave. Vernal, Utah 84078

SCALE: 1 = 100,000

DRAWN BY: mw

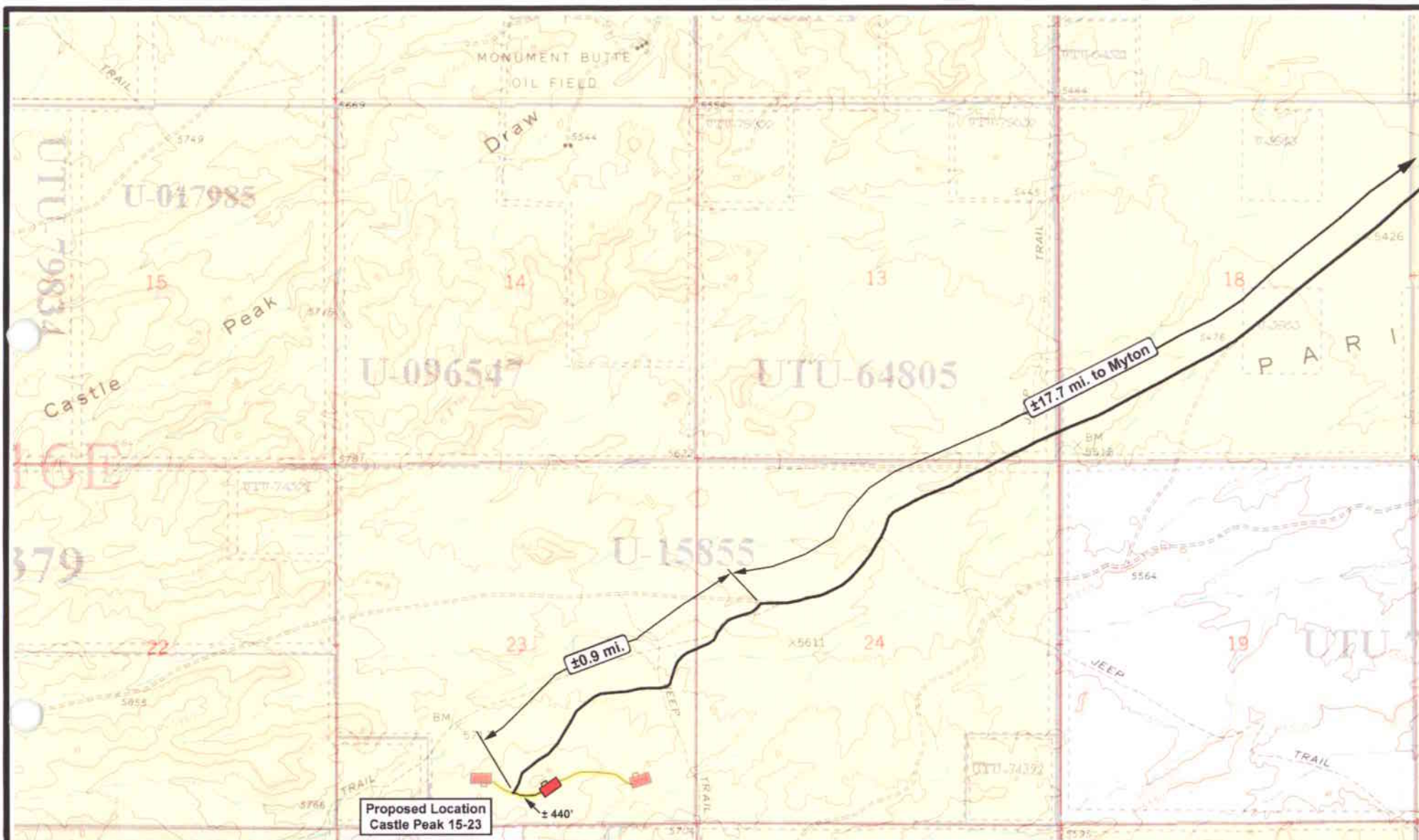
DATE: 04-24-2006

### Legend

**Existing Road**  
**Proposed Access**

TOPOGRAPHIC MAP

**"A"**



**NEWFIELD**  
Exploration Company

**Castle Peak 15-23-9-16**  
**SEC. 23, T9S, R16E, S.L.B.&M.**



**Tri-State**  
Land Surveying Inc.  
(435) 781-2501  
180 North Vernal Ave. Vernal, Utah 84078

SCALE: 1" = 2,000'

DRAWN BY: mw

DATE: 04-24-2006

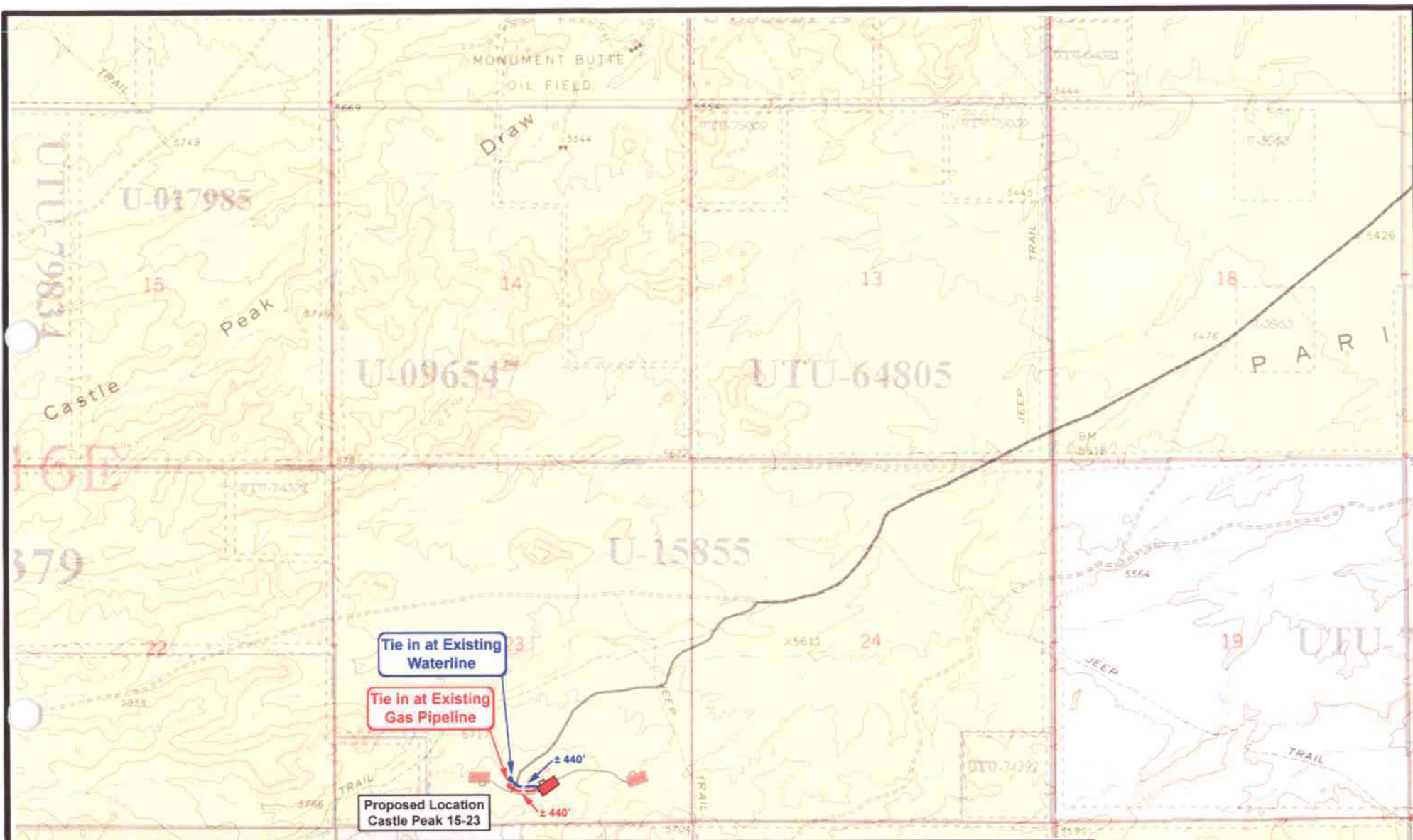
**Legend**

Existing Road

Proposed Access

TOPOGRAPHIC MAP

**"B"**



**NEWFIELD**  
Exploration Company

**Castle Peak 15-23-9-16**  
**SEC. 23, T9S, R16E, S.L.B.&M.**



**Tri-State**  
*Land Surveying Inc.*  
(435) 781-2501  
180 North Vernal Ave. Vernal, Utah 84078

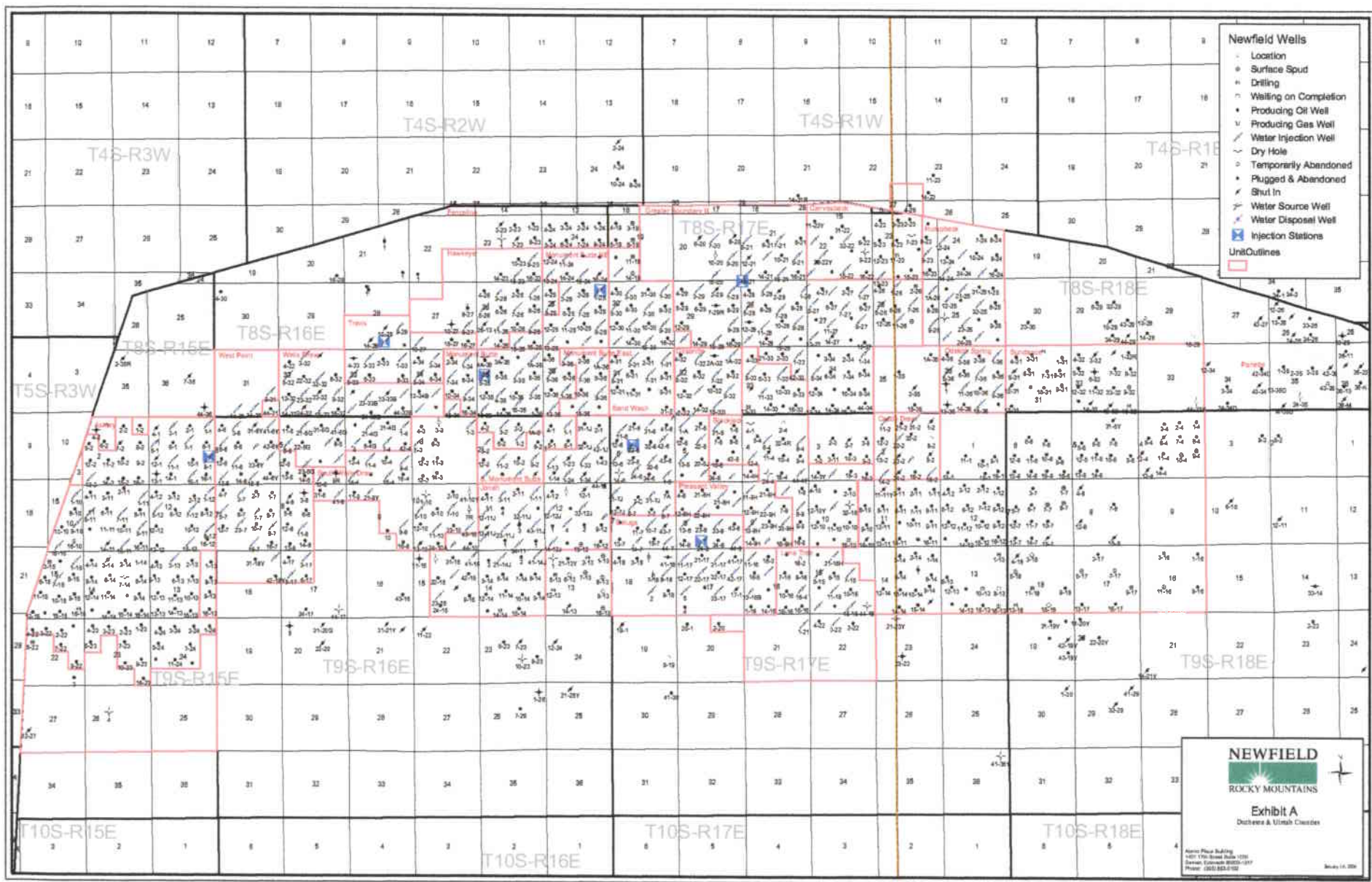
**SCALE: 1" = 2,000'**  
**DRAWN BY: mw**  
**DATE: 04-24-2006**

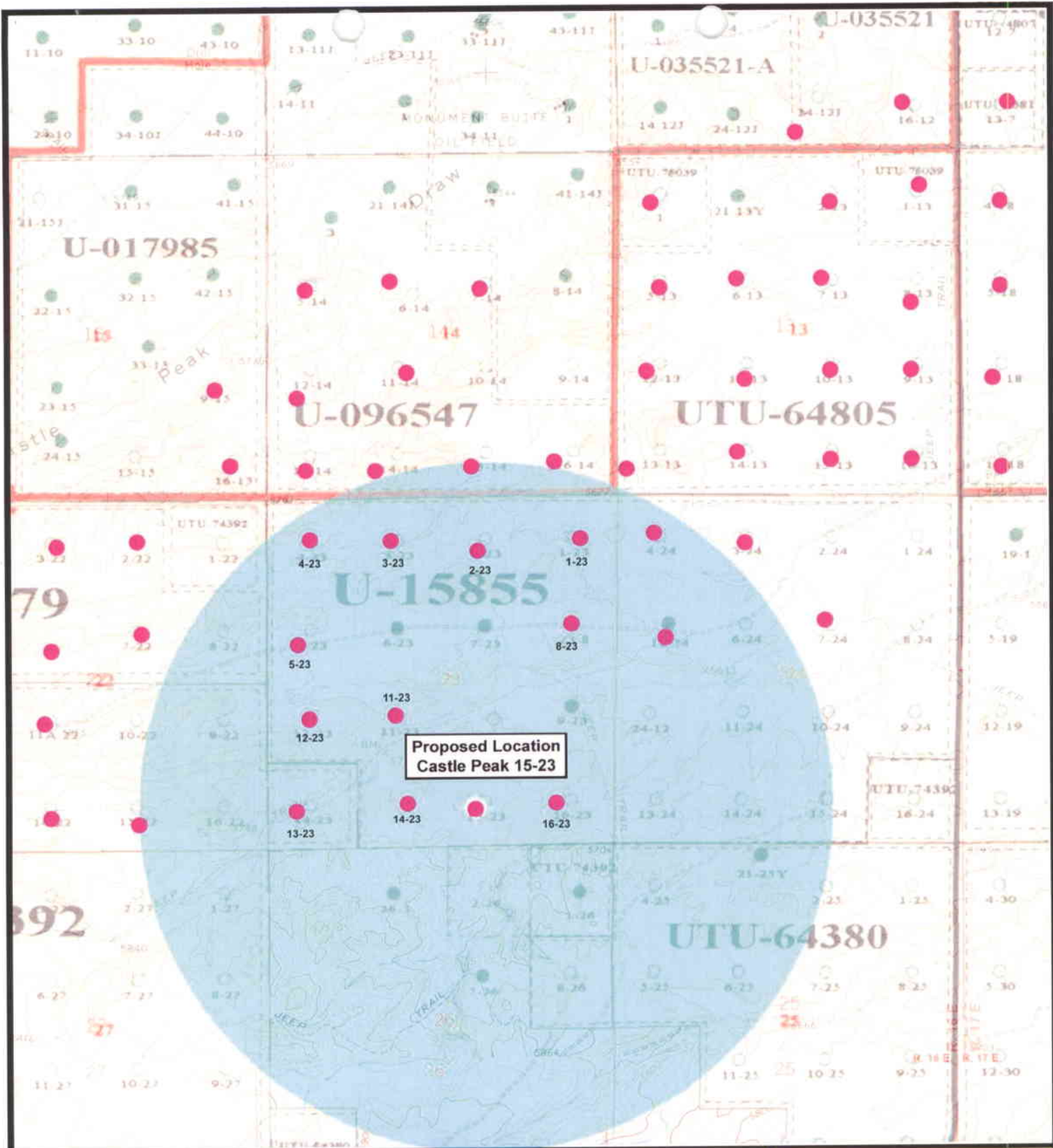
**Legend**

- Roads
- Proposed Gas Line
- Proposed Water Line

**TOPOGRAPHIC MAP**  
**"C"**

UTU-11385





Proposed Location  
Castle Peak 15-23



**NEWFIELD**  
Exploration Company

**Castle Peak 15-23-9-16**  
**SEC. 23, T9S, R16E, S.L.B.&M.**



*Tri-State*  
*Land Surveying Inc.*  
(435) 781-2501  
180 North Vernal Ave. Vernal, Utah 84078

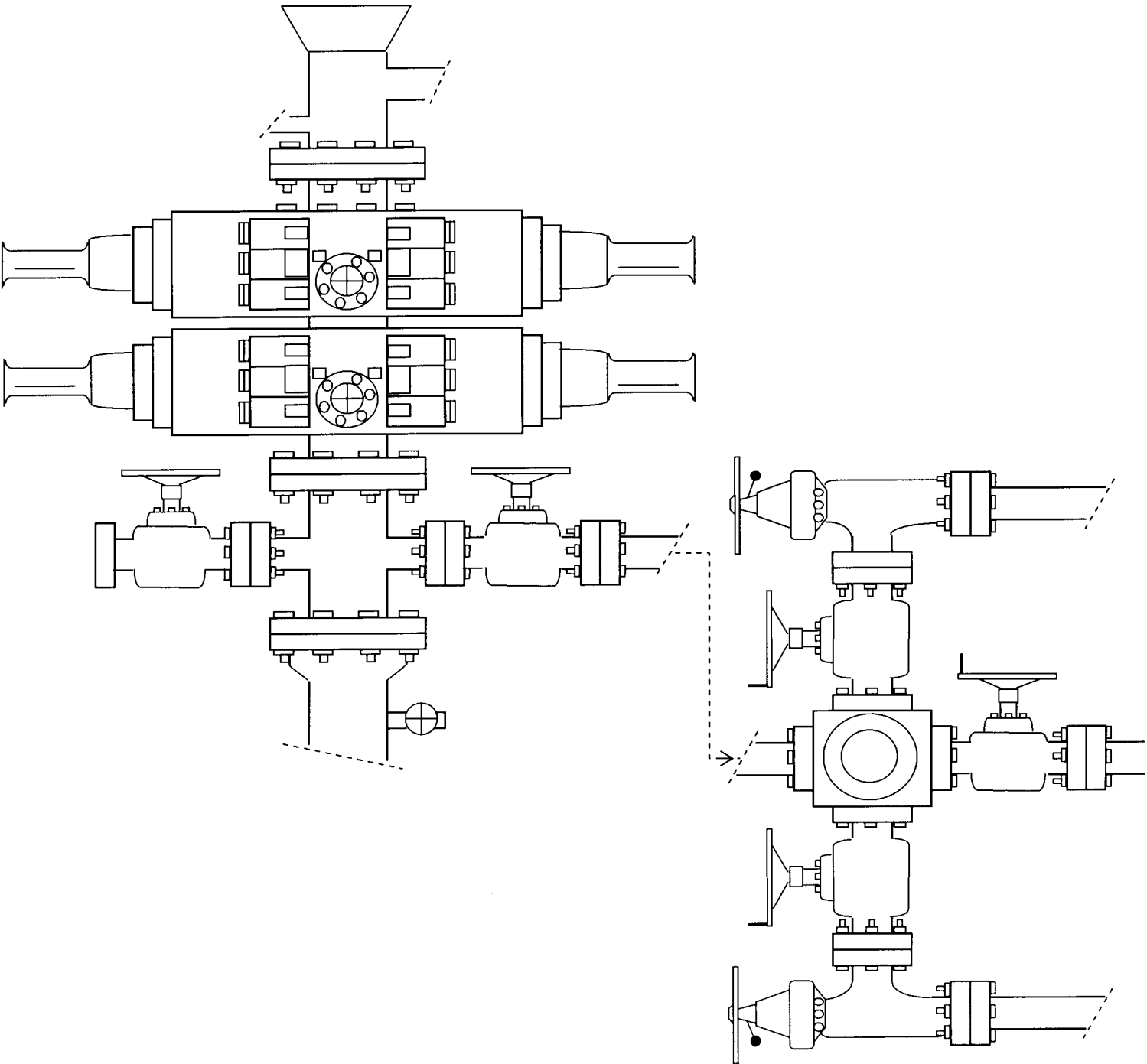
**SCALE: 1" = 2,000'**  
**DRAWN BY: mw**  
**DATE: 04-24-2006**

**Legend**

● **Well Locations**  
● **One-Mile Radius**

**Exhibit "B"**

**2-M SYSTEM**  
Blowout Prevention Equipment Systems



**EXHIBIT C**

CULTURAL RESOURCE INVENTORY OF  
NEWFIELD EXPLORATION'S BLOCK PARCEL  
IN TOWNSHIP 9S, RANGE 16E, SECTION 23 and 24,  
DUCHESNE COUNTY, UTAH

By:

Andre' Jendresen  
and  
Keith Montgomery

Prepared For:

Bureau of Land Management Vernal Field Office

Prepared Under Contract With:

Newfield Exploration Company  
Rt. 3 Box 3630  
Myton, UT 84052

Submitted By:

Keith R. Montgomery  
Montgomery Archaeological Consultants, Inc.  
P.O. Box 147  
Moab, Utah 84532

MOAC Report No. 05-270

September 7, 2005

United States Department of Interior (FLPMA)  
Permit No. 05-UT-60122

State of Utah Antiquities Project (Survey)  
Permit No. U-05-MQ-0831b

**NEWFIELD PRODUCTION COMPANY****PALEONTOLOGICAL FIELD SURVEY OF PROPOSED  
PRODUCTION DEVELOPMENT AREAS,  
DUCHESNE COUNTY, UTAH**

SW 1/4, SE 1/4, and SW 1/4, Section 9 [9,11,12,13 & 14-9-9-16]; Entire Section 22 (excluding NE 1/4, NE 1/4 & NW 1/4, NW 1/4) [2,3,5 through 16-9-9-16]; Entire Section 23 (excluding SE 1/4, NW 1/4, SW 1/4, NE 1/4, NE 1/4 & NW 1/4, SE 1/4) [1 through 5, 8, 11 through 16-9-9-16]; Entire Section 24 (excluding SW 1/4, NW 1/4) [1 through 4, 6 through 16-9-9-16] all in Township 9 South, Range 16 East

**REPORT OF SURVEY**

Prepared for:

**Newfield Production Company**

Prepared by:

Wade E. Miller  
Consulting Paleontologist  
September 28, 2005

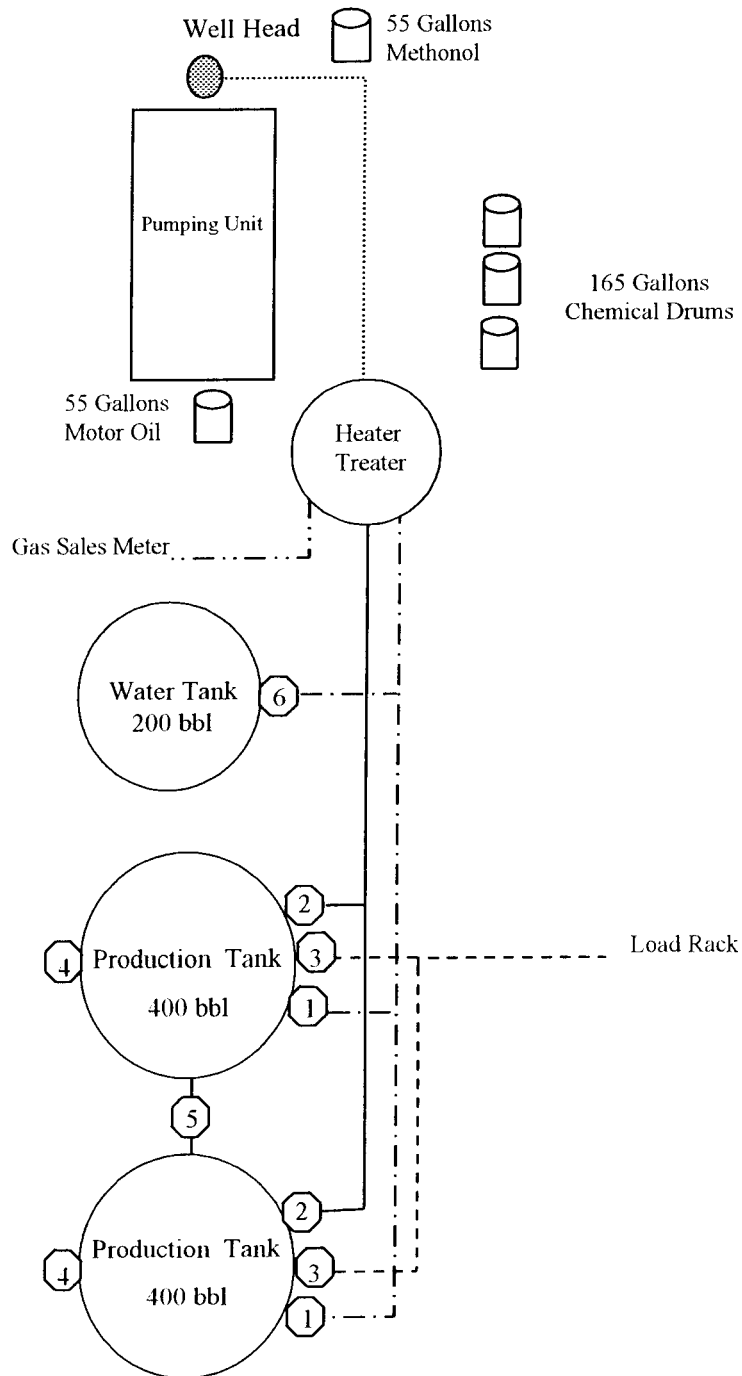
# Newfield Production Company Proposed Site Facility Diagram

Federal 15-23-9-16

SW/SE Sec. 23 T9S, 16E

Duchesne County, Utah

UTU-15855



## Legend

<b>Emulsion Line</b>	.....
<b>Load Rack</b>	-----
<b>Water Line</b>	- - - - -
<b>Gas Sales</b>	.....
<b>Oil Line</b>	—————

## Production Phase:

- 1) Valves 1, 3, and 4 sealed closed
- 2) Valves 2, 5, and 6 sealed open

## Sales Phase:

- 1) Valves 1, 2, 4, 5, and 6 sealed closed
- 2) Valve 3 open

## Draining Phase:

- 1) Valves 1 and 6 open

**WORKSHEET**  
**APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 05/19/2006

API NO. ASSIGNED: 43-013-33182

WELL NAME: FEDERAL 15-23-9-16

OPERATOR: NEWFIELD PRODUCTION ( N2695 )

CONTACT: MANDIE CROZIER

PHONE NUMBER: 435-646-3721

PROPOSED LOCATION:

SWSE 23 090S 160E

SURFACE: 0603 FSL 2162 FEL

BOTTOM: 0603 FSL 2162 FEL

COUNTY: DUCHESNE

LATITUDE: 40.01083 LONGITUDE: -110.0843

UTM SURF EASTINGS: 578153 NORTHINGS: 4429151

FIELD NAME: MONUMENT BUTTE ( 105 )

INSPECT LOCATN BY: / /

Tech Review	Initials	Date
Engineering		
Geology		
Surface		

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU-15855

SURFACE OWNER: 1 - Federal

PROPOSED FORMATION: GRRV

COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

☒ Plat  
☒ Bond: Fed[1] Ind[] Sta[] Fee[]  
(No. UTB000192 )  
☒ Potash (Y/N)  
☒ Oil Shale 190-5 (B) or 190-3 or 190-13  
☒ Water Permit  
(No. MUNICIPAL )  
☒ RDCC Review (Y/N)  
(Date: )  
☒ Fee Surf Agreement (Y/N)  
☒ Intent to Commingle (Y/N)

LOCATION AND SITING:

\_\_\_ R649-2-3.  
Unit: \_\_\_  
☒ R649-3-2. General  
Siting: 460 From Qtr/Qtr & 920' Between Wells  
\_\_\_ R649-3-3. Exception  
\_\_\_ Drilling Unit  
Board Cause No: \_\_\_  
Eff Date: \_\_\_  
Siting: \_\_\_  
\_\_\_ R649-3-11. Directional Drill

COMMENTS:

*See Separate file*

STIPULATIONS:

*1- Federal Approval  
2- Spacing Slip*





**State of Utah**

**Department of  
Natural Resources**

MICHAEL R. STYLER  
*Executive Director*

**Division of  
Oil, Gas & Mining**

JOHN R. BAZA  
*Division Director*

JON M. HUNTSMAN, JR.  
*Governor*

GARY R. HERBERT  
*Lieutenant Governor*

May 25, 2006

Newfield Production Company  
Route 3 Box 3630  
Myton, UT 84052

Re: Federal 15-23-9-16 Well, 603' FSL, 2162' FEL, SW SE, Sec. 23, T. 9 South,  
R. 16 East, Duchesne County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. § 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-013-33182.

Sincerely,

A handwritten signature in black ink, appearing to read "Gil Hunt".

Gil Hunt  
Associate Director

mf  
Enclosures

cc: Duchesne County Assessor  
Bureau of Land Management, Vernal District Office

**Operator:** Newfield Production Company  
**Well Name & Number** Federal 15-23-9-16  
**API Number:** 43-013-33182  
**Lease:** UTU-15855

**Location:** SW SE                      **Sec. 23**                      **T. 9 South**                      **R. 16 East**

### **Conditions of Approval**

**1. General**

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

**2. Notification Requirements**

Notify the Division within 24 hours of spudding the well.

- Contact Carol Daniels at (801) 538-5284.

Notify the Division prior to commencing operations to plug and abandon the well.

- Contact Dan Jarvis at (801) 538-5338

**3. Reporting Requirements**

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

**4. State approval of this well does not supersede the required federal approval, which must be obtained prior to drilling.**

**5. This proposed well is located in an area for which drilling units (well spacing patterns) have not been established through an order of the Board of Oil, Gas and Mining (the "Board"). In order to avoid the possibility of waste or injury to correlative rights, the operator is requested, once the well has been drilled, completed, and has produced, to analyze geological and engineering data generated therefrom, as well as any similar data from surrounding areas if available. As soon as is practicable after completion of its analysis, and if the analysis suggests an area larger than the quarter-quarter section upon which the well is located is being drained, the operator is requested to seek an appropriate order from the Board establishing drilling and spacing units in conformance with such analysis by filing a Request for Agency Action with the Board.**

RECEIVED  
VERNAL FIELD OFFICE

2006 MAY 19 PM 2: 26

DEPT. OF THE INTERIOR  
BUREAU OF LAND MGMT.

Form 3160-3  
(September 2001)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED  
OMB No. 1004-0136  
Expires January 31, 2004

5. Lease Serial No.  
UTU-15855

6. If Indian, Allottee or Tribe Name  
N/A

7. If Unit or CA Agreement, Name and No.  
N/A

8. Lease Name and Well No.  
Federal 15-23-9-16

9. API Well No.  
43-013-33182

10. Field and Pool, or Exploratory  
Monument Butte

11. Sec., T., R., M., or Blk. and Survey or Area  
SW/SE Sec. 23, T9S R16E

12. County or Parish  
Duchesne

13. State  
UT

1a. Type of Work: ☒ DRILL ☐ REENTER

1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other ☒ Single Zone ☐ Multiple Zone

2. Name of Operator  
Newfield Production Company

3a. Address  
Route #3 Box 3630, Myton UT 84052

3b. Phone No. (include area code)  
(435) 646-3721

4. Location of Well (Report location clearly and in accordance with any State requirements. \*)  
At surface SW/SE 603' FSL 2162' FEL  
At proposed prod. zone

14. Distance in miles and direction from nearest town or post office\*  
Approximatley 18.7 miles southwest of Myton, Utah

15. Distance from proposed\* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) Approx. 603' f/lse, NA' f/unit

16. No. of Acres in lease  
1200.00

17. Spacing Unit dedicated to this well  
40 Acres

18. Distance from proposed location\* to nearest well, drilling, completed, applied for, on this lease, ft. Approx. 1049'

19. Proposed Depth  
5916'

20. BLM/BIA Bond No. on file  
UTB000192

21. Elevations (Show whether DF, KDB, RT, GL, etc.)  
5784' GL

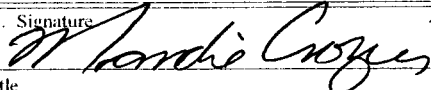
22. Approximate date work will start\*  
3rd Quarter 2006

23. Estimated duration  
Approximately seven (7) days from spud to rig release.

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, shall be attached to this form:

- Well plat certified by a registered surveyor.
- A Drilling Plan.
- A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).
- Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- Operator certification.
- Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature   
Title Regulatory Specialist

Name (Printed/Typed)  
Mandie Crozier

Date  
5/18/06

Approved by (Signature)   
Title Assistant Field Manager  
Lands & Mineral Resources

Name (Printed/Typed)  
JERRY KEWEKA

Office VERNAL FIELD OFFICE

Date  
3-12-2007

Application approval does not warrant or certify the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

CONDITIONS OF APPROVAL ATTACHED

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*(Instructions on reverse)

RECEIVED

MAR 16 2007

DIV. OF OIL, GAS & MINING

NOTICE OF APPROVAL

UDOGM

No NOS

07BM4764A



UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
VERNAL FIELD OFFICE

170 South 500 East VERNAL, UT 84078 (435) 781-4400



**CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL**

Company: Newfield Production Company  
Well No: Federal 15-23-9-16  
API No: 43-013-33182

Location: SWSE, Sec 23, T9S, R16E  
Lease No: UTU-15855  
Agreement: N/A

Petroleum Engineer:	Matt Baker	Office: 435-781-4490	Cell: 435-828-4470
Petroleum Engineer:	Michael Lee	Office: 435-781-4432	Cell: 435-828-7875
Petroleum Engineer:	Jim Ashley	Office: 435-781-4470	Cell: 435-828-7874
Petroleum Engineer:	Ryan Angus	Office: 435-781-4430	Cell: 435-828-7368
Supervisory Petroleum Technician:	Jamie Sparger	Office: 435-781-4502	Cell: 435-828-3913
Environmental Scientist:	Paul Buhler	Office: 435-781-4475	Cell: 435-828-4029
Environmental Scientist:	Karl Wright	Office: 435-781-4484	
Natural Resource Specialist:	Holly Villa	Office: 435-781-4404	
Natural Resource Specialist:	Melissa Hawk	Office: 435-781-4476	
Natural Resource Specialist:	Chuck Macdonald	Office: 435-781-4441	
Natural Resource Specialist:	Darren Williams	Office: 435-781-4447	
Natural Resource Specialist:	Verlyn Pindell	Office: 435-781-3402	
		Fax: 435-781-4410	

**A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR  
FIELD REPRESENTATIVE TO INSURE COMPLIANCE**

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. **This permit is approved for a one-year period. An additional year extension may be applied for by sundry notice prior to expiration.**

**NOTIFICATION REQUIREMENTS**

- |   |  |
|---|--|
| Location Construction<br>(Notify Chuck Macdonald)       | - Forty-Eight (48) hours prior to construction of location and access roads.   |
| Location Completion<br>(Notify Chuck Macdonald)         | - Prior to moving on the drilling rig.   |
| Spud Notice<br>(Notify Petroleum Engineer)              | - Twenty-Four (24) hours prior to spudding the well.   |
| Casing String & Cementing<br>(Notify Jamie Sparger)     | - Twenty-Four (24) hours prior to running casing and cementing all casing strings.   |
| BOP & Related Equipment Tests<br>(Notify Jamie Sparger) | - Twenty-Four (24) hours prior to initiating pressure tests.   |
| First Production Notice<br>(Notify Petroleum Engineer)  | - Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days. |

***SURFACE USE PROGRAM  
CONDITIONS OF APPROVAL (COAs)***

**STIPULATIONS AND NOTICES**

- Adhere to Executive Order 5327 of April 15, 1930, stipulations for lands in oil shale withdrawal.
- Wildlife stipulations:  
None.

Lease Notices from Resource Management Plan:

The lessee/operator is given notice the area has been identified as containing Golden Eagle and Ferruginous Hawk habitat. Modifications may be required in the Surface Use Plan to protect the Golden Eagle and Ferruginous Hawk and/or its habitat from surface disturbance activities in accordance with Section 6 of the lease terms, Endangered Species Act, and 43 CFR 3101.1-2.

**CONDITIONS OF APPROVAL**

- All applicable local, state, and/or federal laws, regulations, and/or statutes will be complied with.
- All traffic related to this action will be restricted to approved routes. Cross-country vehicle travel will not be allowed.
- No vehicle travel, construction or routine maintenance activities shall be performed during periods when the soil is too wet to adequately support vehicles and/or construction equipment. If such equipment creates ruts in excess of four inches deep, the soil shall be deemed too wet to adequately support construction equipment.
- The access road will be crowned and ditched. Flat-bladed roads are not allowed.
- If additional erosion occurs during the life of this project, more culverts, low water crossings, berms, wing ditches or etc. will be needed to control the erosion.
- Low-water crossings will be appropriately constructed to avoid sedimentation of drainage ways and other water resources.
- Pipelines will be buried at all major drainage crossings.
- Prevent fill and stock piles from entering drainages.
- The reserve pit will be lined with a 12 ml or greater liner and felt prior to spudding.
- The liner is to be cut 5 feet below ground surface or at the level of the cuttings, whichever is deeper, and the excess liner material is to be disposed of at an authorized disposal site.

- When the reserve pit contains fluids or toxic substances, the operator must ensure animals do not ingest or become entrapped in pit fluids.
- If paleontologic or cultural materials are uncovered during construction, the operator shall immediately stop work that might further disturb or move such materials and contact the Authorized Officer (AO) within 48 hours. A determination will be made by the AO as to necessary mitigation for the discovered paleontologic/cultural material.
- If Uinta Basin hookless cactus or other special status plants are found, construction will cease and the AO will be notified to determine the appropriate mitigation.
- The interim seed mix for this location shall be:

Crested Wheatgrass ( <i>Agropyron cristatum</i> ):	6 lbs/acre
Indian Ricegrass ( <i>Achnatherum hymenoides</i> ):	6 lbs/acre
Scarlet Globemallow ( <i>Sphaeralcea coccinea</i> )	1 lbs/acre

- All pounds are in pure live seed.
  - Rates are set for drill seeding; double the rate if broadcasting.
  - Reseeding may be required if initial seeding is not successful.
- The operator will be responsible for treatment and control of invasive and noxious weeds.
- The topsoil from the reserve pit shall be stripped and piled separately near the reserve pit. When the reserve pit is closed, it shall be recontoured and the topsoil respread, and the area shall be seeded in the same manner as the location topsoil.
- Once the location is plugged and abandoned, it shall be recontoured to natural topology, topsoil shall be respread, and the entire location shall be seeded with a seed mix recommended by the AO (preferably of native origin). Seed application will follow all guidelines in the interim seed mix bullet statement above. If reclamation seeding should take place using the broadcast method, the seed at a minimum will be walked into the soil with a dozer immediately after the seeding is completed.
- The authorized officer may prohibit surface disturbing activities during severe winter conditions to minimize watershed damage. This limitation does not apply to operation and maintenance of producing wells.
- The authorized officer may prohibit surface disturbing activities during wet or muddy conditions to minimize watershed damage. This limitation does not apply to operation and maintenance of producing wells.
- All well facilities not regulated by OSHA will be painted Carlsbad Canyon.
- All boulders with a length or diameter greater than 3 feet, that are found showing at the surface, will be stockpiled for use during final reclamation.

- Notify the Authorized Officer 48 hours prior to surface disturbing activities.
- Operator shall notify any active gilsonite mining operation within 2 miles of the location 48 hours prior to any blasting during construction for this well.

### ***DOWNHOLE CONDITIONS OF APPROVAL***

**All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to.** The following items are emphasized:

#### **SITE SPECIFIC DOWNHOLE CONDITIONS OF APPROVAL**

1. None.

#### **DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS**

1. There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well. Any changes in operation must have prior approval from the BLM, Vernal Field Office Petroleum Engineers.
2. The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
3. **Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.**
4. Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.

All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.

BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.

Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.

No aggressive/fresh hard-banded drill pipe shall be used within casing.

Cement baskets shall not be run on surface casing.

5. The lessee/operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled and analyzed (a copy of the analyses to be submitted to the BLM Field Office in Vernal, Utah).
6. All oil and gas shows shall be adequately tested for commercial possibilities, reported, and protected.

7. The lessee/operator must report encounters of all non oil and gas mineral resources (such as gilsonite, tar sands, oil shale, etc.) to the Vernal Field Office in writing within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.
8. No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM, Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM, Vernal Field Office shall be obtained and notification given before resumption of operations.
9. Chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.

Any change in the program shall be approved by the BLM, Vernal Field Office. "Sundry Notices and Reports on Wells" (Form BLM 3160-5) shall be filed for all changes of plans and other operations in accordance with 43 CFR 3162.3-2.

Emergency approval may be obtained orally, but such approval does not waive the written report requirement. Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan pursuant to Onshore Oil & Gas Order No. 1 of 43 CFR 3164.1 and prior approval by the BLM, Vernal Field Office.

In accordance with 43 CFR 3162.4-3, this well shall be reported on the "Monthly Report of Operations" (Oil and Gas Operations Report ((OGOR)) starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report shall be filed in duplicate, directly with the Minerals Management Service, P.O. Box 17110, Denver, Colorado 80217-0110, or call 1-800-525-7922 (303) 231-3650 for reporting information.

10. Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.

**Please submit an electronic copy of all other logs run on this well in LAS format to UT\_VN\_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.**

11. All off-lease storage, off-lease measurement, or commingling on-lease or off-lease shall have prior written approval from the BLM, Vernal Field Office.

All measurement points shall be identified as point of sales or allocation for royalty determination prior to the installation of facilities.

12. Oil and gas meters shall be calibrated in place prior to any deliveries. The Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM, Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement.
13. A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM, Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
14. This APD is approved subject to the requirement that, should the well be successfully completed for production, the BLM, Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
  - a. Operator name, address, and telephone number.
  - b. Well name and number.
  - c. Well location (¼¼, Sec., Twn, Rng, and P.M.).
  - d. Date well was placed in a producing status (date of first production for which royalty will be paid).
  - e. The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
  - f. The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.

- g. Unit agreement and / or participating area name and number, if applicable.
  - h. Communitization agreement number, if applicable.
15. Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from Field Office Petroleum Engineers.
  16. All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production
  17. Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
  18. Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry a different reservoir.  
Use "APPLICATION FOR PERMIT -" for such proposals

5. Lease Designation and Serial No.

**UTU-15855**

6. If Indian, Allottee or Tribe Name

**NA**

7. If Unit or CA, Agreement Designation

**N/A**

8. Well Name and No.

**FEDERAL 15-23-9-16**

9. API Well No.

**43-013-33182**

10. Field and Pool, or Exploratory Area

**MONUMENT BUTTE**

11. County or Parish, State

**DUCHESNE COUNTY, UT.**

**SUBMIT IN TRIPLICATE**

1. Type of Well

☒

Oil  
Well

☐

Gas  
Well

☐

Other

2. Name of Operator

**NEWFIELD PRODUCTION COMPANY**

3. Address and Telephone No.

**Rt. 3 Box 3630, Myton Utah, 84052 435-646-3721**

4. Location of Well (Footage, Sec., T., R., m., or Survey Description)

**603 FSL 2162 FEL SW/SE Section 23, T9S R16E**

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

**TYPE OF SUBMISSION**

☒

Notice of Intent

☐

Subsequent Report

☐

Final Abandonment Notice

**TYPE OF ACTION**

☐

Abandonment

☐

Recompletion

☐

Plugging Back

☐

Casing Repair

☐

Altering Casing

☒

Other

**Permit Extension**

☐

Change of Plans

☐

New Construction

☐

Non-Routine Fracturing

☐

Water Shut-Off

☐

Conversion to Injection

☐

Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Newfield Production Company requests to extend the Permit to Drill this well for one year. The original approval date was 5/25/06 (expiration 5/25/07).

This APD is not yet due to expire with the BLM.

Approved by the  
Utah Division of  
Oil, Gas and Mining

APD SENT TO OPERATOR  
DATE: 5.3.07  
BY: RM

Date:

05-01-07

By:

*[Signature]*

RECEIVED

MAY 01 2007

DM. OF OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct

Signed

*[Signature]*  
Mandie Crozier

Title

Regulatory Specialist

Date

4/30/2007

CC: UTAH DOGM

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

CC: Utah DOGM

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**Application for Permit to Drill  
Request for Permit Extension  
Validation**

(this form should accompany the Sundry Notice requesting permit extension)

**API:** 43-013-33182  
**Well Name:** Federal 15-23-9-16  
**Location:** SW/SE Section 23,T9S R16E  
**Company Permit Issued to:** Newfield Production Company  
**Date Original Permit Issued:** 5/25/2006

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision.

Following is a checklist of some items related to the application, which should be verified.

If located on private land, has the ownership changed, if so, has the surface agreement been updated? Yes ☐ No ☐

Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? Yes ☐ No ☒

Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes ☐ No ☒

Have there been any changes to the access route including ownership, or right-of-way, which could affect the proposed location? Yes ☐ No ☒

Has the approved source of water for drilling changed? Yes ☐ No ☒

Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? Yes ☐ No ☒

Is bonding still in place, which covers this proposed well? Yes ☒ No ☐

  
Signature

4/30/2007

Date

Title: Regulatory Specialist

Representing: Newfield Production Company

## DIVISION OF OIL, GAS AND MINING

### **SPUDDING INFORMATION**

Name of Company: NEWFIELD PRODUCTION COMPANY

Well Name: FEDERAL 15-23-9-16

Api No: 43-013-33182 Lease Type: FEDERAL

Section 23 Township 09S Range 16E County DUCHESNE

Drilling Contractor NDSI RIG # NS#1

### **SPUDDED:**

Date 11/26/07

Time 1:00 PM

How DRY

**Drilling will Commence:** \_\_\_\_\_

Reported by DELL RAY

Telephone # (435) 828-6110

Date 11/26/07 Signed CHD

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING  
ENTITY ACTION FORM - FORM 6

OPERATOR: **NEWFIELD PRODUCTION COMPANY**  
ADDRESS: **RT. 3 BOX 3838**  
**MYTON, UT 84052**

OPERATOR ACCT. NO. **N2695**

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION				COUNTY	SPUD DATE	EFFECTIVE DATE
					Q1	SC	TP	R1			
A	99999	16530	4301333570	MALNAR 12-20-4-1	NWSW	20	4S	1W	DUCHESNE	11/20/2007	11/29/07
WELL 1 COMMENTS: <i>GRV</i>											
A	99999	16531	4301333182	FEDERAL 15-23-9-16	SWSE	23	9S	16E	DUCHESNE	11/26/2007	11/29/07
WELL 2 COMMENTS: <i>GRV</i>											
A	99999	16532	43-013-33181	FEDERAL 14-23-9-16	SESW	23	9S	16E	DUCHESNE	11/28/2007	11/29/07
WELL 3 COMMENTS: <i>GRV</i>											
WELL 5 COMMENTS:											
WELL 6 COMMENTS:											

ACTION CODES (See instructions on back of form)

- A - a new entity for new well (single well only)
- B - a well to existing entity (gr.p. or unit well)
- C - from one existing entity to another existing entity
- D - well from one existing entity to a new entity
- E - User (explain in comments section)

NOTE: Use COMMENT section to explain why each Action Code was selected.

RECEIVED

NOV 29 2007

DIV. OF OIL, GAS & MINING

*[Signature]*  
Signature  
Jeniri Park  
Production Clerk  
11/29/07  
Date

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0135  
Expires January 31, 2004

**SUNDRY NOTICES AND REPORTS ON WELLS**  
Do not use this form for proposals to drill or to re-enter an  
abandoned well. Use Form 3160-3 (APD) for such proposals.

**SUBMIT IN TRIPLICATE - Other Instructions on reverse side**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

NEWFIELD PRODUCTION COMPANY

3a. Address Route 3 Box 3630

Myton, UT 84052

3b. Phone (include area code)

435.646.3721

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

603 FSL 2162 FEL

SWSE Section 23 T9S R16E

5. Lease Serial No.

USA UTU-15855

6. If Indian, Allottee or Tribe Name.

7. If Unit or CA/Agreement, Name and/or

8. Well Name and No.

Federal 15-23-9-16

9. API Well No.

4301333182

10. Field and Pool, or Exploratory Area

MONUMENT BUTTE

11. County or Parish, State

DUCHESNE, UT

**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production(Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other _____
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug & Abandon	<input type="checkbox"/> Temporarily Abandon	Weekly Status Report
	<input type="checkbox"/> Convert to	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomple horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recomple in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

On 12/6/07 MIRU NDSI Rig # 3. Set all equipment. Pressure test Kelly, TIW, Choke manifold, & Bop's to 2,000 psi. Test 8.625 csgn to 1,500 psi. Vernal BLM field, & Roosevelt DOGM office was notified of test. PU BHA and tag cement @ 306'. Drill out cement & shoe. Drill a 7.875 hole with fresh water to a depth of 5,800. Lay down drill string & BHA. Open hole log w/ Dig/SP/GR log's TD to surface. PU & TIH with Guide shoe, shoe jt, float collar, 135 jt's of 5.5 J-55, 15.5# csgn. Set @ 5,792' / KB. Cement with 300 sks cement mixed @ 11.0 ppg & 3.49 yld. Then 400 sks cement mixed @ 14.4 ppg & 1.24 yld. With 15 bbls cement returned to pit. Nipple down Bop's. Drop slips @101,000 #s tension. Release rig 7:30 PM 12/11/07.

I hereby certify that the foregoing is true and correct (Printed/ Typed)

Alvin Nielsen

Signature

*Alvin Nielsen*

Title

Drilling Foreman

Date

12/12/2007

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title

Date

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious and fraudulent statements or representations as to any matter within its jurisdiction

(Instructions on reverse)

**RECEIVED**

**DEC 13 2007**

**DIV. OF OIL, GAS & MINING**

# NEWFIELD PRODUCTION COMPANY - CASING & CEMENT REPORT

5 1/2" CASING SET AT 5792.88

LAST CASING 8 5/8" Set @ 322'  
 DATUM 12' KB  
 DATUM TO CUT OFF CASING 12'  
 DATUM TO BRADENHEAD FLANGE  
 TD DRILLER 5800 Loggers 5794'  
 HOLE SIZE 7 7/8"

Flt clr @ 5748'  
 OPERATOR Newfield F  
 WELL Federal 15-23-9-16  
 FIELD/PROSPECT Monument Butte  
 CONTRACTOR & RIG # NDSI #3

## LOG OF CASING STRING:

PIECES	OD	ITEM - MAKE - DESCRIPTION	WT / FT	GRD	THREAD	CONDT	LENGTH
		Landing Jt					14
		Short jt 3959'/6.35'					
135	5 1/2"	ETC LT & C casing	15.5#	J-55	8rd	A	5736.21
		Float collar					0.6
1	5 1/2"	ETC LT&C csg	15.5#	J-55	8rd	A	43.42
		GUIDE shoe			8rd	A	0.65
CASING INVENTORY BAL.		FEET	JTS	TOTAL LENGTH OF STRING			5794.88
TOTAL LENGTH OF STRING		5794.88	136	LESS CUT OFF PIECE			14
LESS NON CSG. ITEMS		15.25		PLUS DATUM TO T/CUT OFF CSG			12
PLUS FULL JTS. LEFT OUT		130.21	3	CASING SET DEPTH			5792.88
TOTAL		5909.84	139	} COMPARE			
TOTAL CSG. DEL. (W/O THRDS)		5909.84	139				
TIMING		1ST STAGE	2nd STAGE				
BEGIN RUN CSG.		12/11/2007	8:00 AM	GOOD CIRC THRU JOE B YES			
CSG. IN HOLE		12/11/2007	12:00 PM	Bbls CMT CIRC TO SURFACE 15			
BEGIN CIRC		12/11/2007	12:00 PM	RECIPROCATED PIPE FOR _____THRUSTROKE NA			
BEGIN PUMP CMT		12/11/2007	1:52 PM	DID BACK PRES. VALVE HOLD ? YES			
BEGIN DSPL. CMT		12/11/2007	2:41 PM	BUMPED PLUG TO 2100 PSI			
PLUG DOWN		12/11/2007	3:07 PM				
CEMENT USED		CEMENT COMPANY- B. J.					
STAGE	# SX	CEMENT TYPE & ADDITIVES					
1	300	Premilite II w/ 10% gel + 3 % KCL, 5#s /sk CSE + 2# sk/kolseal + 1/2#s/sk Cello Flake					
		mixed @ 11.0 ppg W / 3.43 cf/sk yield					
2	400	50/50 poz W/ 2% Gel + 3% KCL, .5%EC1,1/4# sk C.F. 2% gel. 3% SM mixed @ 14.4 ppg W/ 1.24 YLD					
CENTRALIZER & SCRATCHER PLACEMENT			SHOW MAKE & SPACING				
Centralizers - Middle first, top second & third. Then every third collar for a total of 20.							

COMPANY REPRESENTATIVE Johnny Dav

DATE 12/10/2007

**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL: OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-15855
2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: Route 3 Box 3630 CITY Myton STATE UT ZIP 84052		7. UNIT or CA AGREEMENT NAME:
4. LOCATION OF WELL: FOOTAGES AT SURFACE: 603 FSL 2162 FEL		8. WELL NAME and NUMBER: FEDERAL 15-23-9-16
OTR/OTR. SECTION. TOWNSHIP. RANGE. MERIDIAN: SWSE, 23, T9S, R16E		9. API NUMBER: 4301333182
		10. FIELD AND POOL, OR WILDCAT: MONUMENT BUTTE
		COUNTY: DUCHESNE
		STATE: UT

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate)  Approximate date work will  _____	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PLUG BACK <input type="checkbox"/> PRODUCTION (START/STOP) <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	<input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TEMPORARILY ABANDON <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLAIR <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> WATER SHUT-OFF <input checked="" type="checkbox"/> OTHER: - Weekly Status Report
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only)  Date of Work Completion:  01/11/2008			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The above mentioned well went on production 1/11/08. See attached daily activity report.

**RECEIVED**  
**JAN 18 2008**  
DIV. OF OIL, GAS & MINING

NAME (PLEASE PRINT) <u>Tammi Lee</u>	TITLE <u>Production Clerk</u>
SIGNATURE <u></u>	DATE <u>01/17/2008</u>

**Daily Activity Report**

Format For Sundry

**FEDERAL 15-23-9-16****11/1/2007 To 3/29/2008****1/4/2008 Day: 1****Completion**

Rigless on 1/3/2008 - Install 5M frac head. NU 6" 5M Cameron BOP. RU H/O truck & pressure test casing, blind rams, frac head & casing valves to 4500 psi. RU Perforators LLC WLT w/ mast & run CBL under pressure. WLTD @ 5707' & cement top @ 156'. Perforate stage #1. CP2 sds @ 5345- 68' w/ 3 1/8" slick guns (19 gram, .49" HE, 120°, 21.92" pen, EXP-3319-331 Titan) w/ 4 spf for total of 92 shots. 137 BWTR. SIFN.

**1/8/2008 Day: 2****Completion**

Rigless on 1/7/2008 - RU BJ Services. 0 psi on well. Frac CP2 sds w/ 73,000#'s of 20/40 sand in 603 bbls of Lightning 17 fluid. Broke @ 3145 psi. Pumped 780 gals of fresh wtr mixed with 30 gals of Techni-Hib 767W. Treated w/ ave pressure of 1939 psi @ ave rate of 23.2 BPM. ISIP 2177 psi. Begin immediate flowback on 12/64 choke @ 1 BPM. Flowed for 3 hrs & died. Rec est 190 BTF. SIWFN w/ 550 BWTR.

**1/9/2008 Day: 3****Completion**

Leed #731 on 1/8/2008 - MIRU Leed 731. Hot oiler steamed & thawed out WH & BOP. 110 psi on well. Bleed off pressure. ND Cameron BOP & 5M WH. NU 3M WH & Schaffer BOP. SIWFN w/ 540 BWTR.

**1/10/2008 Day: 4****Completion**

Leed #731 on 1/9/2008 - Hot oiler steamed & thawed out WH & BOP. No pressure on well. Talley, PU & RIH w/ production tbg as follows: NC, 2-jts, SN, 2-jts, TA & 175 jts of tbg. Tagged sand @ 5600'. Tbg displaced 13 BW on TIH. C/O to PBTD @ 5748'. TOH w/ 15 jts of tbg. EOT @ 5280', TA @ approx. 5152'. RU swab equipment. SIWFN w/ 527 BWTR.

**1/11/2008 Day: 5****Completion**

Leed #731 on 1/10/2008 - Hot oiler steamed & thawed out WH & BOP. 0 psi on well. Swab. IFL @ sfc. Made 8 runs, Rec 158 BTF. FFL 900'. TIH w/ tbg. Tagged sand @ 5738'. LD 11 jts of tbg. ND BOP. Set TA w/ 15,000#'s of tension @ 5300', SN @ 5364', EOT @ 5427'. NU WH. RU pump & lines. Flush tbg w/ 60 BW. "Did not have 1" rod boxes for wt bars". SIWFN w/ 429 BWTR.

**1/12/2008 Day: 6****Completion**

Leed #731 on 1/11/2008 - Hot oiler steamed & thawed out WH & BOP. 0 psi on well. Prime up rod pump, PU & RIH w/ "B" grade rod string as follows: 2 1/2" X 1 1/2" X 15' RHAC (CDI), 6- 1 1/2" wt bars ("B" grade), 20- 3/4" guided rods ("B" grade), 89- 3/4" plain rods ("B" grade), 99- 3/4" guided rods ("B" grade), 1- 8', 1-6' X 3/4" pony rods ("A" grade), 1 1/2" X 26' polish rod ("A" grade). Hang head, Space out rods. Stroke test to 800 psi w/ rig to 800 psi. RDMO & POP @ 4:30 PM w/ 86" SL @ 5 SPM. 429 BWTR. FINAL REPORT!!!

**Pertinent Files: Go to File List**

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

WELL COMPLETION OR RECOMPLETION REPORT AND LOG\*

1a. TYPE OF WORK

OIL WELL ☒ GAS WELL ☐ DRY ☐ Other \_\_\_\_\_

1b. TYPE OF WELL

NEW WELL ☒ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF RESVR. ☐ Other \_\_\_\_\_

2. NAME OF OPERATOR

Newfield Exploration Company

3. ADDRESS AND TELEPHONE NO.

1401 17th St. Suite 1000 Denver, CO 80202

4. LOCATION OF WELL (Report locations clearly and in accordance with any State requirements \*)

At Surface 603' FSL & 2162' FEL  
At top prod. Interval reported below

At total depth

14 API NO 43-013-33182 DATE ISSUED 10-16-07

12 COUNTY OR PARISH Duchesne 13 STATE UT

15 DATE SPUDDED 11/26/07 16 DATE T.D. REACHED 12/10/07 17 DATE COMPL. (Ready to prod.) 1/11/07 18 ELEVATIONS (DF, RKB, RT GR, ETC) \* 5784' GL 5796' KB 19 ELEV. CASING HEAD

20 TOTAL DEPTH, MD & TVD 5800' 21 PLUG BACK T.D., MD & TVD 5748' 22 IF MULTIPLE COMPL. HOW MANY\* 23 INTERVALS DRILLED BY -----> ROTARY TOOLS X CABLE TOOLS

24 PRODUCING INTERVAL(S) OF THIS COMPLETION--TOP BOTTOM, NAME (MD AND TVD)\* Green River 5345'-5368' 25 WAS DIRECTIONAL SURVEY MADE No

26 TYPE ELECTRIC AND OTHER LOGS RUN Dual Induction Guard, SP, Compensated Density, Compensated Neutron, GR, Caliper, Cement Bond Log 27 WAS WELL CORED No

23 CASING RECORD (Report all strings set in well)					
CASING SIZE/GRADE	WEIGHT, LB./FT	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD	AMOUNT PULLED
8-5/8" - J-55	24#	322	12 1/4	To surface w/ 160 sx of class "G" cement	
5-1/2" J-55	15.5#	5792.88	7 7/8	300 sx Premilite II & 400 sx of 50/50 POZ	

29. LINER RECORD					30. TUBING RECORD		
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2-7/8"	EOT @ 5427.45'	TA @ 5300.14'

31. PERFORATION RECORD (Interval, size and number) 32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.  
INTERVAL SIZE SPF/NUMBER DEPTH INTERVAL (MD) AMOUNT AND KIND OF MATERIAL USED

CP2 sds 5345'-5368'	.49"	4/92	5345'-5368'	Frac w/ 73,000 #'s of 20/40 sand in 603 bbls of fluid

33 * PRODUCTION							
DATE FIRST PRODUCTION 1/11/08	PRODUCTION METHOD (Flowing, gas lift, pumping--size and type of pump) 2 1/2' x 1 1/2' x 15' RHAC Pump w/ SM Plunger					WELL STATUS (Producing or shut-in) PRODUCING	
DATE OF TEST 10 day ave	HOURS TESTED	CHOKE SIZE	PROD'N FOR TEST PERIOD	OIL--BBL'S 63	GAS--MCF 5	WATER--BBL 896	GAS-OIL RATIO 321
FLOW TUBING PRESS	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL-BBL	GAS--MCF	WATER--BBL	OIL GRAVITY-API (CORR.)	

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) Used for Fuel TEST WITNESSED BY

35. LIST OF ATTACHMENTS JAN 28 2008

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.  
SIGNED Tammi Lee TITLE DIV. OF Production Technician DATE 1/24/2008

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals, and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries);				38. GEOLOGIC MARKERS		
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
			Well Name Federal 15-23-9-16	Garden Gulch Mkr	3424'	
				Garden Gulch 1	3630'	
				Garden Gulch 2	3744'	
				Point 3 Mkr	3984'	
				X Mkr	4250'	
				Y-Mkr	4292'	
				Douglas Creek Mkr	4409'	
				BiCarbonate Mkr	4643'	
				B Limestone Mkr	4742'	
				Castle Peak	5237'	
				Basal Carbonate	5698'	
				Wasatch	0	
				Total Depth (Loggers)	5792'	

# NEWFIELD



Well Name: Federal 15-23-9-16

LOCATION: S23, T9S, R16E

COUNTY/STATE: Duchesne

API: 43-013-33182

Spud Date: 11-26-07

TD: 5800'

CSG: 12-11-07

POP: 1-11-08

DATE	HRS	Oil (bbls)	Water (bbls)	Recovered Water (bbls)	Gas (mcf)	Casing Pressure (psi)	SPM	Comments
1/11/2008				429				POP @ 4:30 P.M. w/ 86" SL @ 5 SPM. 429 bbls water to recover.
1/12/2008				429				
1/13/2008	24	0	88	341	0	0	6	
1/14/2008	24	0	123	218	0	0	6	
1/15/2008	24	0	114	104	0	0	6	
1/16/2008	24	0	143	-39	0	0	6	
1/17/2008	13	0	39	-78	0	0	6	Down - overheat
1/18/2008	24	0	121	-199	0	30	6	
1/19/2008	24	0	77	-276	0	20	6	
1/20/2008	24	0	40	-316	0	0	6	
1/21/2008	24	60	21	-337	5	20	6	
1/22/2008	24	3	130	-467	0	0	6	
1/23/2008				-467				
1/24/2008				-467				
1/25/2008				-467				
1/26/2008				-467				
1/27/2008				-467				
1/28/2008				-467				
1/29/2008				-467				
1/30/2008				-467				
1/31/2008				-467				
2/1/2008				-467				
2/2/2008				-467				
2/3/2008				-467				
2/4/2008				-467				
2/5/2008				-467				
2/6/2008				-467				
2/7/2008				-467				
2/8/2008				-467				
2/9/2008				-467				
2/10/2008				-467				
2/11/2008				-467				
		63	896		5			

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-15855
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
1. TYPE OF WELL Oil Well		7. UNIT or CA AGREEMENT NAME: GMBU (GRRV)
2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY		8. WELL NAME and NUMBER: FEDERAL 15-23-9-16
3. ADDRESS OF OPERATOR: Rt 3 Box 3630, Myton, UT, 84052		9. API NUMBER: 43013331820000
PHONE NUMBER: 435 646-4825 Ext		9. FIELD and POOL or WILDCAT: MONUMENT BUTTE
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0603 FSL 2162 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSE Section: 23 Township: 09.0S Range: 16.0E Meridian: S		COUNTY: DUCHESNE
		STATE: UTAH

11.

CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE  <input type="checkbox"/> CHANGE TO PREVIOUS PLANS  <input checked="" type="checkbox"/> CHANGE WELL STATUS  <input type="checkbox"/> DEEPEN  <input type="checkbox"/> OPERATOR CHANGE  <input type="checkbox"/> PRODUCTION START OR RESUME  <input type="checkbox"/> REPERFORATE CURRENT FORMATION  <input type="checkbox"/> TUBING REPAIR  <input type="checkbox"/> WATER SHUTOFF  <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING  <input type="checkbox"/> CHANGE TUBING  <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS  <input type="checkbox"/> FRACTURE TREAT  <input type="checkbox"/> PLUG AND ABANDON  <input type="checkbox"/> RECLAMATION OF WELL SITE  <input type="checkbox"/> SIDETRACK TO REPAIR WELL  <input type="checkbox"/> VENT OR FLARE  <input type="checkbox"/> SI TA STATUS EXTENSION  <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR  <input type="checkbox"/> CHANGE WELL NAME  <input checked="" type="checkbox"/> CONVERT WELL TYPE  <input type="checkbox"/> NEW CONSTRUCTION  <input type="checkbox"/> PLUG BACK  <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION  <input type="checkbox"/> TEMPORARY ABANDON  <input type="checkbox"/> WATER DISPOSAL  <input type="checkbox"/> APD EXTENSION	OTHER: <input style="width: 100px;" type="text"/>
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 8/23/2013				
<input type="checkbox"/> SPUD REPORT Date of Spud:				
<input type="checkbox"/> DRILLING REPORT Report Date:				

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The subject well has been converted from a producing oil well to an injection well on 08/23/2013. On 08/22/2013 Chris Jensen with the State of Utah DOGM was contacted concerning the initial MIT on the above listed well. On 08/23/2013 the casing was pressured up to 1300 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 0 psig during the test. There was not a State representative available to witness the test.

**Accepted by the  
Utah Division of  
Oil, Gas and Mining**

Date: September 12, 2013

By: 

NAME (PLEASE PRINT) Lucy Chavez-Naupoto	PHONE NUMBER 435 646-4874	TITLE Water Services Technician
SIGNATURE N/A		DATE 8/27/2013

# Mechanical Integrity Test Casing or Annulus Pressure Test

Newfield Production Company  
Rt. 3 Box 3630  
Myton, UT 84052  
435-646-3721

Witness: \_\_\_\_\_ Date 8/23/13 Time 1:15 am ☒ pm  
Test Conducted by: EVERETT L. N. R. A.  
Others Present: \_\_\_\_\_

Well: FEDERAL 15-23-9-16

Field: MONUMENT BUTTE

Well Location: SWSE SEC 23 T9S R10E  
Duchesne County, UT

API No: 43-013-33182

<u>Time</u>	<u>Casing Pressure</u>	
0 min	<u>1300</u>	psig
5	<u>1300</u>	psig
10	<u>1300</u>	psig
15	<u>1300</u>	psig
20	<u>1300</u>	psig
25	<u>1300</u>	psig
30 min	<u>1300</u>	psig
35		psig
40		psig
45		psig
50		psig
55		psig
60 min		psig

Tubing pressure: 0 psig

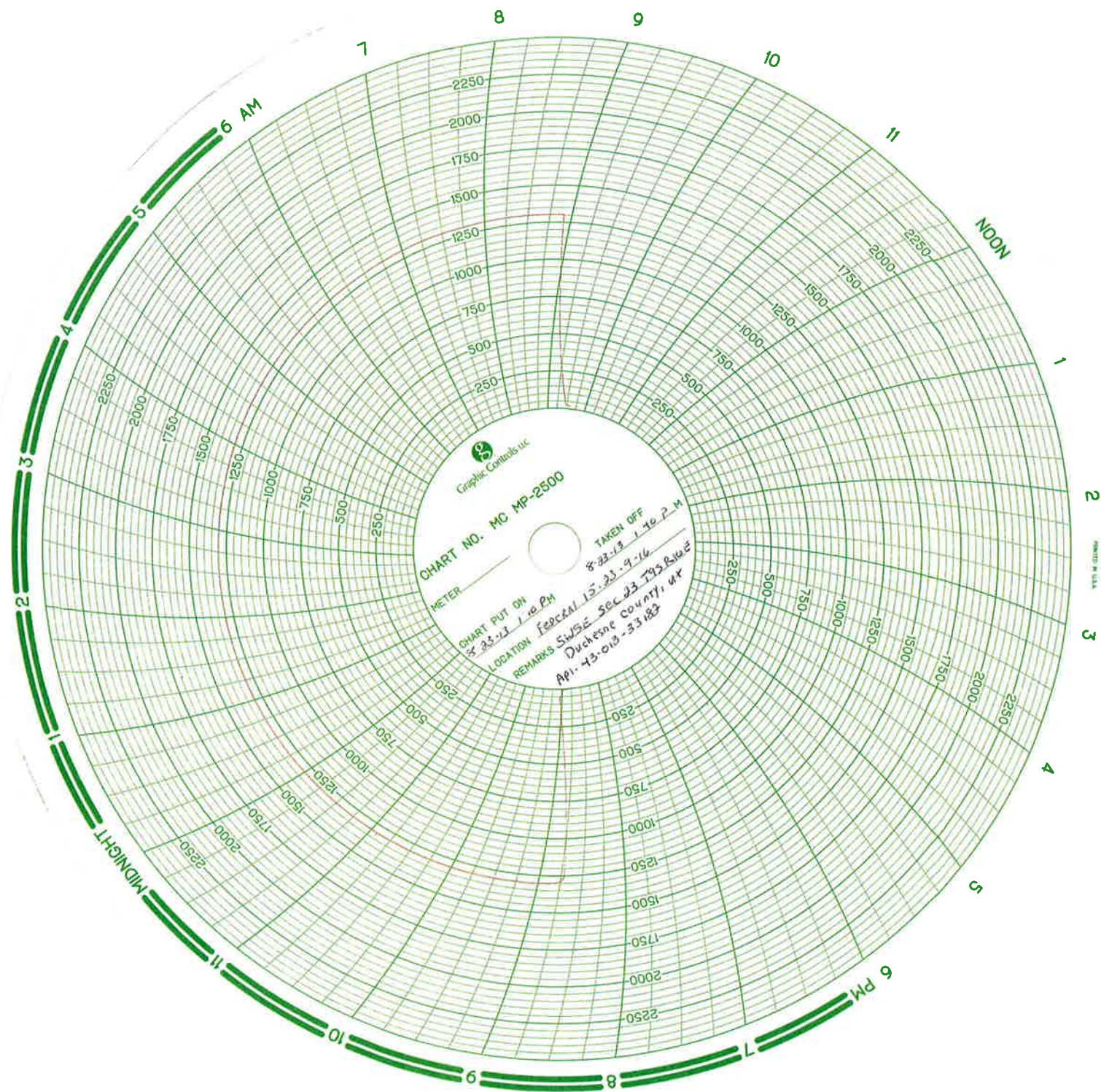
Result:

Pass

Fail

Signature of Witness: \_\_\_\_\_

Signature of Person Conducting Test: Everett L. N. R. A.



## Daily Activity Report

Format For Sundry

FEDERAL 15-23-9-16

6/1/2013 To 10/30/2013

8/21/2013 Day: 2

Conversion

basic #1629 on 8/21/2013 - Id rods, TOOH with tbg - crew travel and safety meeting spot rig at well rig up unload trucks and trailers rig was down for repairs(no charge) rig down horse head all bolts seized up and pin rusted in change to rod equipment work pump unable to get unseated - pump 60 bbls 250 degree water down casing lay down polished rod un seat pump lay down 3 rods flush with 40 bbls 250 degree water soft seat pump tear down well head pressure test to 3000 p.s.i. rig up well head unseat pump lay down 194 rods and 6 sinker bars on trailer change to rod equipment nipple down well head nipple up b.o.p. rig up work floor tongs and slips release tubing anchor flush tubing with 40 bbls 250 degree water p.o.o.h. with tubing breaking and toflon doping every connection for 122 joints lay down remaining 34 joints tubing anchor seat nipple and notched collar secure well s.d.f.n. - - pump 60 bbls 250 degree water down casing lay down polished rod un seat pump lay down 3 rods flush with 40 bbls 250 degree water soft seat pump tear down well head pressure test to 3000 p.s.i. rig up well head unseat pump lay down 194 rods and 6 sinker bars on trailer change to rod equipment nipple down well head nipple up b.o.p. rig up work floor tongs and slips release tubing anchor flush tubing with 40 bbls 250 degree water p.o.o.h. with tubing breaking and toflon doping every connection for 122 joints lay down remaining 34 joints tubing anchor seat nipple and notched collar secure well s.d.f.n. - - pump 60 bbls 250 degree water down casing lay down polished rod un seat pump lay down 3 rods flush with 40 bbls 250 degree water soft seat pump tear down well head pressure test to 3000 p.s.i. rig up well head unseat pump lay down 194 rods and 6 sinker bars on trailer change to rod equipment nipple down well head nipple up b.o.p. rig up work floor tongs and slips release tubing anchor flush tubing with 40 bbls 250 degree water p.o.o.h. with tubing breaking and toflon doping every connection for 122 joints lay down remaining 34 joints tubing anchor seat nipple and notched collar secure well s.d.f.n. - - crew travel and safety meeting spot rig at well rig up unload trucks and trailers rig was down for repairs(no charge) rig down horse head all bolts seized up and pin rusted in change to rod equipment work pump unable to get unseated - crew travel and safety meeting spot rig at well rig up unload trucks and trailers rig was down for repairs(no charge) rig down horse head all bolts seized up and pin rusted in change to rod equipment work pump unable to get unseated - - - pump 60 bbls 250 degree water down casing lay down polished rod un seat pump lay down 3 rods flush with 40 bbls 250 degree water soft seat pump tear down well head pressure test to 3000 p.s.i. rig up well head unseat pump lay down 194 rods and 6 sinker bars on trailer change to rod equipment nipple down well head nipple up b.o.p. rig up work floor tongs and slips release tubing anchor flush tubing with 40 bbls 250 degree water p.o.o.h. with tubing breaking and toflon doping every connection for 122 joints lay down remaining 34 joints tubing anchor seat nipple and notched collar secure well s.d.f.n. - pump 60 bbls 250 degree water down casing lay down polished rod un seat pump lay down 3 rods flush with 40 bbls 250 degree water soft seat pump tear down well head pressure test to 3000 p.s.i. rig up well head unseat pump lay down 194 rods and 6 sinker bars on trailer change to rod equipment nipple down well head nipple

up b.o.p. rig up work floor tongs and slips release tubing anchor flush tubing with 40 bbls 250 degree water p.o.o.h. with tubing breaking and toflon doping every connection for 122 joints lay down remaining 34 joints tubing anchor seat nipple and notched collar secure well s.d.f.n. - crew travel and safety meeting spot rig at well rig up unload trucks and trailers rig was down for repairs(no charge) rig down horse head all bolts seized up and pin rusted in change to rod equipment work pump unable to get unseated - crew travel and safety meeting spot rig at well rig up unload trucks and trailers rig was down for repairs(no charge) rig down horse head all bolts seized up and pin rusted in change to rod equipment work pump unable to get unseated -

**Daily Cost:** \$0

**Cumulative Cost:** \$22,237

---

**8/22/2013 Day: 3****Conversion**

basic #1629 on 8/22/2013 - drop sv, set packer - talley tubing r.i.h. to 3803 rig down floor nipple down b.o.p. land well nipple up well head drop standing valve pressure test tubing to 3000 p.s.i. hold 100 % for 30 minutes retrieve standing valve spot packer fluid @ packer nipple down well head attempt to set packer unable to get packer to set nipple up b.o.p. rig up wrk floor tongs and slips flush tubing with 40 bbls 250 degree water p.o.o.h. with tubing lay down packer secure well s.d.f.n. - talley tubing r.i.h. to 3803 rig down floor nipple down b.o.p. land well nipple up well head drop standing valve pressure test tubing to 3000 p.s.i. hold 100 % for 30 minutes retrieve standing valve spot packer fluid @ packer nipple down well head attempt to set packer unable to get packer to set nipple up b.o.p. rig up wrk floor tongs and slips flush tubing with 40 bbls 250 degree water p.o.o.h. with tubing lay down packer secure well s.d.f.n. - talley tubing r.i.h. to 3803 rig down floor nipple down b.o.p. land well nipple up well head drop standing valve pressure test tubing to 3000 p.s.i. hold 100 % for 30 minutes retrieve standing valve spot packer fluid @ packer nipple down well head attempt to set packer unable to get packer to set nipple up b.o.p. rig up wrk floor tongs and slips flush tubing with 40 bbls 250 degree water p.o.o.h. with tubing lay down packer secure well s.d.f.n.

**Finalized**

**Daily Cost:** \$0

**Cumulative Cost:** \$29,584

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**8/26/2013 Day: 5****Conversion**

basic #1629 on 8/26/2013 - psi test - 6:00-7:00 crew travel and safety meeting 7:00-12:30 test casing to 1400 finally obtained a 100% test 12:30-1:30 rig down load trucks and trailers - 6:00-7:00 crew travel and safety meeting 7:00-12:30 test casing to 1400 finally obtained a 100% test 12:30-1:30 rig down load trucks and trailers - crew travel and safety meeting pick up new packer r.i.h. with tubing rig down floor nipple down b.o.p. nipple up well head drop standing valve pressure test tubing to 3000 p.s.i. hold 100 % for 30 minutes retrieve standing valve spot packer fluid at packer nipple down wellhead set packer nipple up well head pressure test casing to 1400 p.s.i. unable to get 100% test shut well in with 1400 p.s.i. s.d.f.n. - crew travel and safety meeting pick up new packer r.i.h. with tubing rig down floor nipple down b.o.p. nipple up well head drop standing valve pressure test tubing to 3000 p.s.i. hold 100 % for 30 minutes retrieve standing valve spot packer fluid at packer nipple down wellhead set packer nipple up well head pressure test casing to 1400 p.s.i. unable to get 100% test shut well in with 1400 p.s.i. s.d.f.n. - crew travel and safety meeting pick up new packer r.i.h. with tubing rig down floor nipple down b.o.p. nipple up well head drop standing valve pressure test tubing to 3000 p.s.i. hold 100 % for 30 minutes retrieve standing valve spot packer fluid at packer nipple down wellhead set packer nipple up well head pressure test casing to 1400 p.s.i. unable to get 100% test shut well in with 1400 p.s.i. s.d.f.n. - 6:00-7:00 crew travel and safety meeting 7:00-12:30 test casing to 1400 finally obtained a 100% test 12:30-1:30 rig down load trucks and trailers - On 08/22/2013 Chris Jensen with the State of

Utah DOGM was contacted concerning the initial MIT on the above listed well. On 08/23/2013 the casing was pressured up to 1300 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 0 psig during the test. There was not a State representative available to witness the test. - On 08/22/2013 Chris Jensen with the State of Utah DOGM was contacted concerning the initial MIT on the above listed well. On 08/23/2013 the casing was pressured up to 1300 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 0 psig during the test. There was not a State representative available to witness the test. - On 08/22/2013 Chris Jensen with the State of Utah DOGM was contacted concerning the initial MIT on the above listed well. On 08/23/2013 the casing was pressured up to 1300 psig and charted for 30 minutes with no pressure loss. 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**Daily Cost:** \$0

**Cumulative Cost:** \$41,695

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**Pertinent Files: [Go to File List](#)**

Spud Date: 11/26/07

Put on Production: 3/14/08

GL: 5784' KB: 5796'

## FEDERAL 15-23-9-16

Injection Wellbore  
DiagramSURFACE CASING

CSG SIZE: 8-5/8"

GRADE: J-55

WEIGHT: 24#

LENGTH: 7 jts. (310.15')

DEPTH LANDED: 322.00' KB

HOLE SIZE: 12-1/4"

CEMENT DATA: 1- 160, sxs Class "G" cmt, est 5 bbls cmt to surf.

PRODUCTION CASING

CSG SIZE: 5-1/2"

GRADE: J-55

WEIGHT: 15.5#

LENGTH: 136 jts. (5779.63')

DEPTH LANDED: 5792.88' KB

HOLE SIZE: 7-7/8"

CEMENT DATA: 300 sxs Prem. Lite II mixed &amp; 400 sxs 50/50 POZ.

CEMENT TOP: 156'

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#

NO OF JOINTS: 120 jts (3766.1')

SEATING NIPPLE: 2-7/8" (1.10')

SN LANDED AT: 3778.1' KB

ON/OFF TOOL AT: 3779.2'

ARROW #1 PACKER CE AT: 3785'

XO 2-3/8 x 2-7/8 J-55 AT: 3788'

TBG PUP 2-3/8 J-55 AT: 3788.5'

X/N NIPPLE AT: 3792.6'

TOTAL STRING LENGTH: EOT @ 3793.81'

FRAC JOB

01/07/08 5345-5368'

**Frac CP2 sands as follows:**

73000# 20/40 sand in 603 bbls Lightning 17 frac fluid. Treated @ avg press of 1939 psi w/avg rate of 23.2 BPM. ISIP 2177 psi.

03/11/08 5006-5014'

**Frac LODC sands as follows:**

40149# 20/40 sand in 417 bbl Lightning 17 frac fluid. Treated @ avg press of 2660 psi w/avg rate of 26.2 BPM. ISIP 3080 psi.

03/11/08 4597-4606'

**Frac C sands as follows:**

15394# 20/40 sand in 262 bbls Lightning 17 frac fluid. Treated @ avg press of 2078 psi w/avg rate of 23.3 BPM. ISIP 2078 psi.

03/11/08 3956-3969'

**Frac GB6 sands as follows:**

79237# 20/40 sand in 602 bbls Lightning 17 frac fluid. Treated @ avg press of 1468 psi w/avg rate of 26.2 BPM. ISIP 1460 psi.

03/11/08 3867-3906'

**Frac GB4 & GB2 sands as follows:**

25572# 20/40 sand in 325 bbls Lightning 17 frac fluid. Treated @ avg press of 1710 psi w/avg rate of 25.9 BPM. ISIP 1585 psi.

12/30/08

**Parted rods.** Updated r & t details.

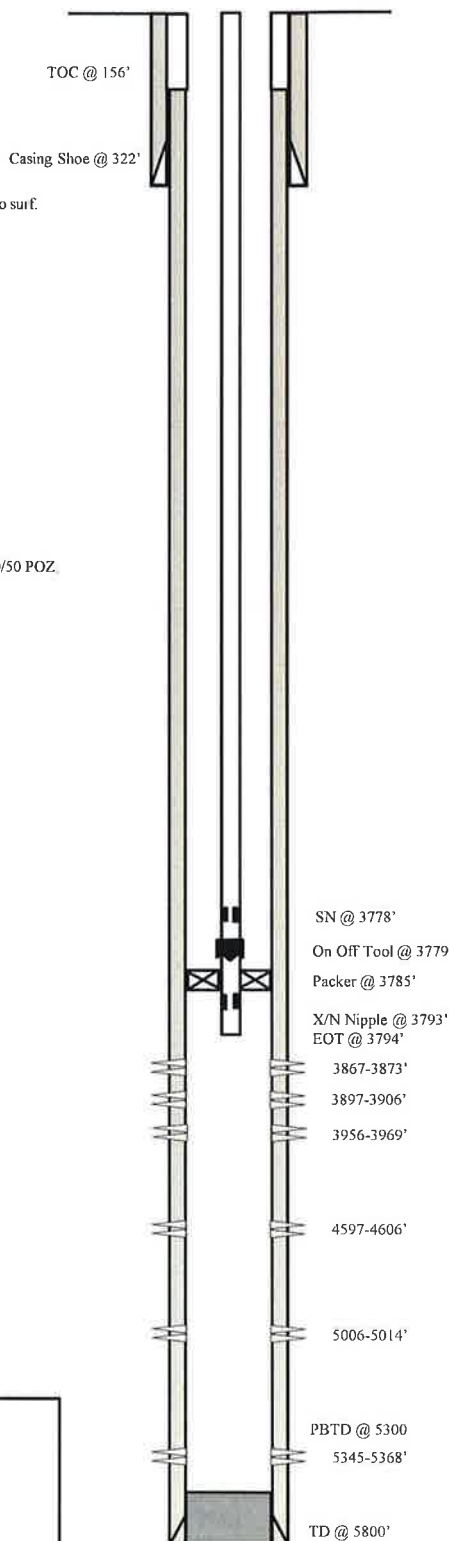
02/03/11

**Tubing Leak.** Updated R & T details.

08/23/13

**Convert to Injection Well**

08/23/13

**Conversion MIT Finalized** – update tbg detailPERFORATION RECORD

5345-5368'	4 JSPF	92 holes
5006-5014'	4 JSPF	32 holes
4597-4606'	4 JSPF	36 holes
3956-3969'	4 JSPF	52 holes
3897-3906'	4 JSPF	36 holes
3867-3873'	4 JSPF	24 holes



## FEDERAL 15-23-9-16

603' FSL &amp; 2162' FEL

SW/SE Section 23-T9S-R16E

Duchesne Co, Utah

API #43-013-33182; Lease # UTU-15855

LCN 08/26/13

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-15855
<b>1. TYPE OF WELL</b> Water Injection Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>2. NAME OF OPERATOR:</b> NEWFIELD PRODUCTION COMPANY		<b>7. UNIT or CA AGREEMENT NAME:</b> GMBU (GRRV)
<b>3. ADDRESS OF OPERATOR:</b> Rt 3 Box 3630 , Myton, UT, 84052		<b>8. WELL NAME and NUMBER:</b> FEDERAL 15-23-9-16
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0603 FSL 2162 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWSE Section: 23 Township: 09.0S Range: 16.0E Meridian: S		<b>9. API NUMBER:</b> 43013331820000
<b>PHONE NUMBER:</b> 435 646-4825 Ext		<b>9. FIELD and POOL or WILDCAT:</b> MONUMENT BUTTE
<b>COUNTY:</b> DUCHESNE		<b>STATE:</b> UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 9/27/2013	<input type="checkbox"/> ALTER CASING	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR	
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
	<input type="checkbox"/> CHANGE TUBING	
	<input checked="" type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> CONVERT WELL TYPE	
	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> FRACTURE TREAT	
	<input type="checkbox"/> NEW CONSTRUCTION	
	<input type="checkbox"/> OPERATOR CHANGE	
	<input type="checkbox"/> PLUG AND ABANDON	
	<input type="checkbox"/> PLUG BACK	
	<input type="checkbox"/> PRODUCTION START OR RESUME	
	<input type="checkbox"/> RECLAMATION OF WELL SITE	
	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> TEMPORARY ABANDON	
	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> VENT OR FLARE	
	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input type="checkbox"/> OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  <div style="display: flex; justify-content: space-between;"> <div style="width: 60%;">           The above reference well was put on injection at 8:30 AM on            09/27/2013.         </div> <div style="width: 35%; text-align: center;"> <b>Accepted by the              Utah Division of              Oil, Gas and Mining              FOR RECORD ONLY              October 30, 2013</b> </div> </div>		
<b>NAME (PLEASE PRINT)</b> Lucy Chavez-Naupoto	<b>PHONE NUMBER</b> 435 646-4874	<b>TITLE</b> Water Services Technician
<b>SIGNATURE</b> N/A	<b>DATE</b> 10/4/2013	

Spud Date: 11/26/07

Put on Production: 3/14/08

GL: 5784' KB: 5796'

# FEDERAL 15-23-9-16

## Injection Wellbore Diagram

### SURFACE CASING

CSG SIZE: 8-5/8"

GRADE: J-55

WEIGHT: 24#

LENGTH: 7 jts. (310.15')

DEPTH LANDED: 322.00' KB

HOLE SIZE: 12-1/4"

CEMENT DATA: 1- 160, sxs Class "G" cmt, est 5 bbls cmt to surf.

### PRODUCTION CASING

CSG SIZE: 5-1/2"

GRADE: J-55

WEIGHT: 15.5#

LENGTH: 136 jts. (5779.63')

DEPTH LANDED: 5792.88' KB

HOLE SIZE: 7-7/8"

CEMENT DATA: 300 sxs Prem. Lite II mixed & 400 sxs 50/50 POZ.

CEMENT TOP: 156'

CIBP @ 5300'

### TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#

NO. OF JOINTS: 120 jts (3766.1')

SEATING NIPPLE: 2-7/8" (1.10')

SN LANDED AT: 3778.1' KB

ON/OFF TOOL AT: 3779.2'

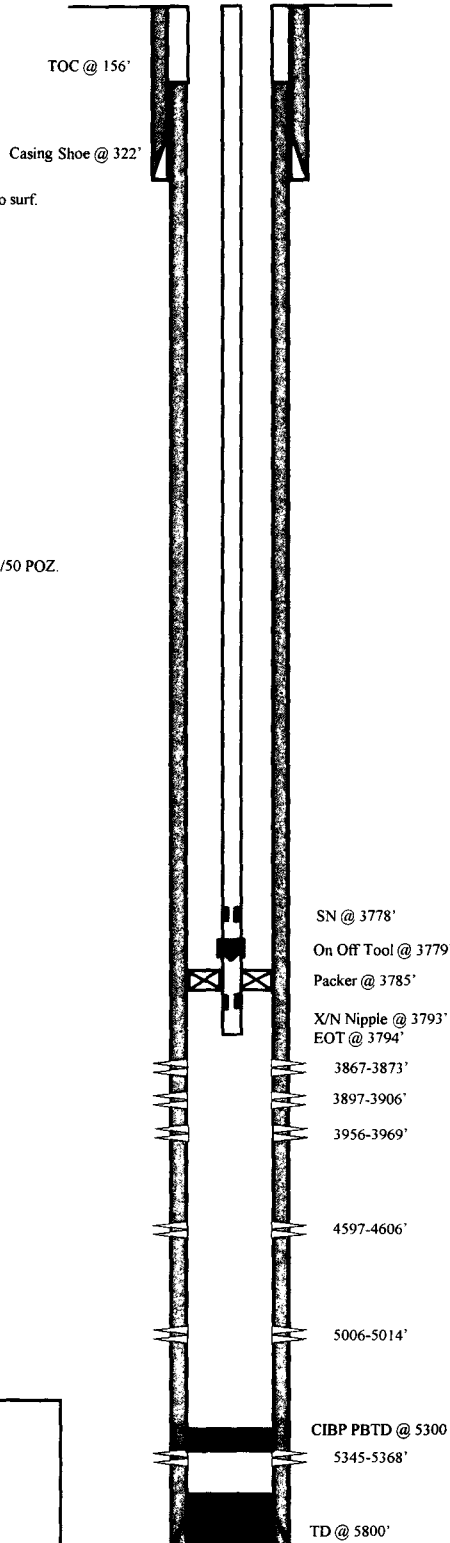
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XO 2-3/8 x 2-7/8 J-55 AT: 3788'

TBG PUP 2-3/8 J-55 AT: 3788.5'

X/N NIPPLE AT: 3792.6'

TOTAL STRING LENGTH: EOT @ 3793.81'



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12/30/08

**Parted rods.** Updated r & t details.

02/03/11

**Tubing Leak.** Updated R & T details.

08/23/13

**Convert to Injection Well**

08/23/13

**Conversion MIT Finalized** - update tbg detail

### PERFORATION RECORD

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3867-3873' 4 JSPF 24 holes

**NEWFIELD**

**FEDERAL 15-23-9-16**

603' FSL & 2162' FEL

SW/SE Section 23-T9S-R16E

Duchesne Co, Utah

API #43-013-33182; Lease # UTU-15855

LCN 08/26/13



GARY R. HERBERT  
Governor

GREGORY S. BELL  
Lieutenant Governor

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

### Division of Oil, Gas and Mining

JOHN R. BAZA  
Division Director

## UNDERGROUND INJECTION CONTROL PERMIT

Cause No. UIC-392


**CORRECTED**

**Operator:** Newfield Production Company  
**Well:** Federal 15-23-9-16  
**Location:** Section 23, Township 9 South, Range 16 East  
**County:** Duchesne  
**API No.:** 43-013-33182  
**Well Type:** Enhanced Recovery (waterflood)

### Stipulations of Permit Approval

1. Approval for conversion to Injection Well issued on November 29, 2012.
2. Maximum Allowable Injection Pressure: ~~1,799 psig~~ **corrected to 1,434 psig**
3. Maximum Allowable Injection Rate: (restricted by pressure limitation)
4. Injection Interval: Green River Formation (3,824' – 5,300')  
The injection top is limited by nearby well Federal 9-23-9-16 (43-013-30654)
5. Any subsequent wells drilled within a ½ mile radius of this well shall have production casing cement brought up to or above the top of the unitized interval for the Greater Monument Butte Unit.

Approved by:

  
John Rogers  
Associate Director

10/2/2013  
Date

JR/MLR/js

cc: Bruce Suchomel, Environmental Protection Agency  
Bureau of Land Management, Vernal  
Eric Sundberg, Newfield Production Company, Denver  
Newfield Production Company, Myton  
Duchesne County  
Well File

N:\O&G Reviewed Docs\ChronFile\UIC

1594 West North Temple, Suite 1210, PO Box 145801, Salt Lake City, UT 84114-5801  
telephone (801) 538-5340 • facsimile (801) 359-3940 • TTY (801) 538-7458 • [www.ogm.utah.gov](http://www.ogm.utah.gov)





GARY R. HERBERT  
Governor

GREGORY S. BELL  
Lieutenant Governor

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

### Division of Oil, Gas and Mining

JOHN R. BAZA  
Division Director

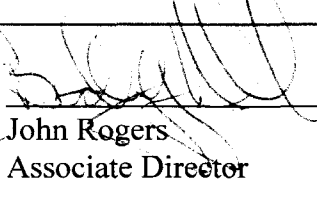
## UNDERGROUND INJECTION CONTROL PERMIT

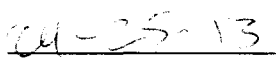
Cause No. UIC-392

**Operator:** Newfield Production Company  
**Well:** Federal 15-23-9-16  
**Location:** Section 23, Township 9 South, Range 16 East  
**County:** Duchesne  
**API No.:** 43-013-33182  
**Well Type:** Enhanced Recovery (waterflood)

### Stipulations of Permit Approval

1. Approval for conversion to Injection Well issued on November 29, 2012.
2. Maximum Allowable Injection Pressure: 1,799 psig
3. Maximum Allowable Injection Rate: (restricted by pressure limitation)
4. Injection Interval: Green River Formation (3,824' – 5,300')  
The injection top is limited by nearby well Federal 9-23-9-16 (43-013-30654)
5. Any subsequent wells drilled within a ½ mile radius of this well shall have production casing cement brought up to or above the top of the unitized interval for the Greater Monument Butte Unit.

Approved by:   
John Rogers  
Associate Director

  
Date

JR/MLR/js

cc: Bruce Suchomel, Environmental Protection Agency  
Bureau of Land Management, Vernal  
Eric Sundberg, Newfield Production Company, Denver  
Newfield Production Company, Myton  
Duchesne County  
Well File

N:\O&G Reviewed Docs\ChronFile\UIC





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Governor

GREGORY S. BELL  
Lieutenant Governor

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

### Division of Oil, Gas and Mining

JOHN R. BAZA  
Division Director

November 29, 2012

Newfield Production Company  
1001 Seventeenth Street, Suite 2000  
Denver, CO 80202

Subject: Greater Monument Butte Unit Well: Federal 15-23-9-16, Section 23, Township 9 South, Range 16 East, SLBM, Duchesne County, Utah, API Well # 43-013-33182


Gentlemen:

Pursuant to Utah Admin. Code R649-5-3-3, the Division of Oil, Gas and Mining (the "Division") issues its administrative approval for conversion of the referenced well to a Class II injection well. Accordingly, the following stipulations shall apply for full compliance with this approval:

1. Compliance with all applicable requirements for the operation, maintenance and reporting for Underground Injection Control ("UIC") Class II injection wells pursuant to Utah Admin. Code R649-1 et seq.
2. Conformance with all conditions and requirements of the complete application submitted by Newfield Production Company.
3. A casing/tubing pressure test shall be conducted prior to commencing injection.
4. Pressure shall be monitored between the surface casing and the production casing on a regular basis. Any pressure changes observed shall be reported to the Division immediately.
5. **The top of the injection interval shall be limited to a depth no higher than 3,824 feet in the Federal 15-23-9-16 well.**

A final approval to commence injection will be issued upon satisfactory completion of the listed stipulations. If you have any questions regarding this approval or the necessary requirements, please contact Mark Reinbold at 801-538-5333 or Brad Hill at 801-538-5315.

Sincerely,

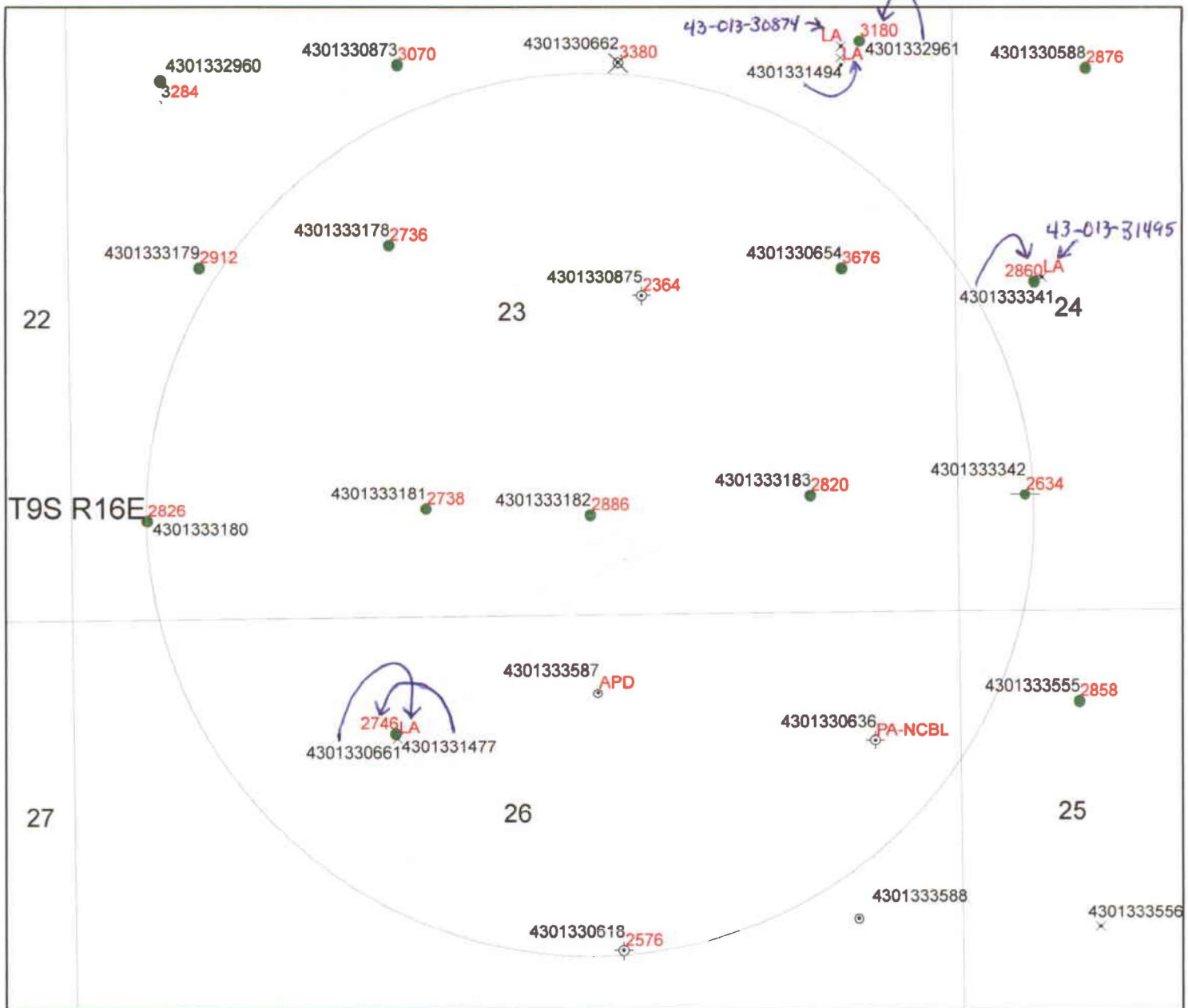
  
John Rogers  
Associate Director

JR/MLR/js

cc: Bruce Suchomel, Environmental Protection Agency  
Bureau of Land Management, Vernal  
Duchesne County  
Newfield Production Company, Myton  
Well File

N:\O&G Reviewed Docs\ChronFile\UIC





**DIVISION OF OIL, GAS AND MINING  
UNDERGROUND INJECTION CONTROL PROGRAM  
PERMIT  
STATEMENT OF BASIS**

**Applicant:** Newfield Production Company      **Well:** Federal 15-23-9-16

**Location:** 23/9S/16E      **API:** 43-013-33182

**Ownership Issues:** The proposed well is located on BLM land. The well is located in the Greater Monument Butte Unit. Lands in the one-half mile radius of the well are administered by the BLM. The Federal Government is the mineral owner within the area of review (AOR). Newfield and other various individuals hold the leases in the unit. Newfield has provided a list of all surface, mineral and lease holders in the half-mile radius. Newfield is the operator of the Greater Monument Butte Unit. Newfield has submitted an affidavit stating that all owners and interest owners have been notified of their intent.

**Well Integrity:** The proposed well has surface casing set at 322 feet and has a cement top at the surface. A 5½ inch production casing is set at 5,793 feet. The cement bond log is somewhat problematic but appears to demonstrate adequate bond in this well up to at least 2,886 feet, or higher with light cement. A 2 7/8 inch tubing with a packer is proposed to be set at 3,817 feet. A mechanical integrity test will be run on the well prior to injection. There are 7 producing wells, 1 shut-in well, and 3 P/A wells in the AOR. Most of the wells have evidence of adequate casing and cement for the proposed injection interval. However, the Federal 9-23-9-16 well (API# 43-013-30654), located within the AOR, appears to have inadequate cement for the proposed injection interval. Its CBL (4/1/1983) indicates a suitable cement bond top at about 3,676 feet. To protect this wellbore Newfield will not perforate the Federal 15-23-9-16 well above 3,824 feet (see next paragraph).

**Ground Water Protection:** As interpreted from the Utah Geological Survey's DOE Project-Uinta Basin Water Draft Map (Paul B. Anderson, December 2, 2011), the base of moderately saline water (3000-10,000 mg/l TDS) is at a depth of approximately 2200 feet. The requested injection interval is between 3,743 feet and 5,300 feet in the Green River Formation. However, as described in the previous paragraph, the top of good cement bond is at about 3,676 feet in the Federal 9-23-9-16 well. This cement top correlates to a depth of approximately 3,724 feet in the Federal 15-23-9-16 well. For this reason, it is recommended that the top of the injection interval be permitted no higher than a depth of 3,824 feet in the Federal 15-23-9-16 well. Information submitted by Newfield indicates that the fracture gradient for the 15-23-9-16 well is 0.80 psi/ft., which was the lowest reported fracture gradient for the injection zone. The resulting minimum fracture pressure for the proposed injection interval is 1,434 psig. The requested maximum pressure is 1,434 psig. The anticipated average injection pressure is 1100 psig. Injection at this

pressure should not initiate any new fractures or propagate existing fractures in the adjacent confining intervals. Any ground water present should be adequately protected.

**Oil/Gas& Other Mineral Resources Protection:** The Board of Oil, Gas & Mining approved the Greater Monument Butte Unit on December 1, 2009. Correlative rights issues were addressed at this time. Previous reviews in this area indicate that other mineral resources in the area have been protected or are not at issue.

**Bonding:** Bonded with the BLM

**Actions Taken and Further Approvals Needed:** A notice of agency action has been sent to the Salt Lake Tribune and the Uinta Basin Standard. A casing/tubing pressure test will be required prior to injection. It is recommended that approval of this application be granted.

Note: Applicable technical publications concerning water resources in the general vicinity of this project have been reviewed and taken into consideration during the permit review process.

Reviewer(s): Mark Reinbold

Date: 10/12/2012

1770 S. 5600 W.  
P.O. BOX 704005  
WEST VALLEY CITY, UTAH 84170  
FED.TAX I.D.# 87-0217663

The Salt Lake Tribune

MEDIAONE

Deseret News

PROOF OF PUBLICATION

CUSTOMER'S COPY

CUSTOMER NAME AND ADDRESS	ACCOUNT NUMBER	DATE
DIV OF OIL-GAS & MINING, 1594 W NORTH TEMP #1210 P.O. BOX 145801 SALT LAKE CITY, UT 84114	9001402352	5/25/2012

RECEIVED  
JUN 04 2012  
DIV OF OIL GAS & MINING

BEFORE THE DIVISION OF OIL, GAS AND MINING  
DEPARTMENT OF NATURAL RESOURCES  
STATE OF UTAH  
NOTICE OF AGENCY ACTION  
CAUSE NO. UIC-392

ACCOUNT NAME	
DIV OF OIL-GAS & MINING,	
TELEPHONE	ADORDER#
8015385340	0000794885
SCHEDULE	
Start 05/25/2012	End 05/25/2012
CUST. REF. NO.	
Newfield Prod UIC-392	
CAPTION	
BEFORE THE DIVISION OF OIL, GAS AND MINING DEPARTMENT	
SIZE	
87 Lines	3.00
TIMES	
3	
MISC. CHARGES	AD
	TC

IN THE MATTER OF THE APPLICATION OF NEWFIELD PRODUCTION COMPANY FOR ADMINISTRATIVE APPROVAL OF CERTAIN WELLS LOCATED IN SECTIONS 12, 13, 15, 17, 19, 20, 21, 22, 23, 24, AND 25, TOWNSHIP 9 SOUTH, RANGE 16 EAST, DUCHESE COUNTY, UTAH, AS CLASS II INJECTION WELLS.

THE STATE OF UTAH TO ALL PERSONS INTERESTED IN THE ABOVE ENTITLED MATTER.

Notice is hereby given that the Division of Oil, Gas and Mining (the "Division") is commencing an informal adjudicative proceeding to consider the application of Newfield Production Company, 1001 17th Street, Suite 2000, Denver, Colorado 80202, telephone 303-893-0102, for administrative approval of the following wells located in Duchesne County, Utah, for conversion to Class II injection wells:

Greater Almont Butte Unit:

Monument Federal 22-12J well located in SE/4 NW/4, Section 12, Township 9 South, Range 16 East

API 43-013-15796

Federal 5-13-9-16 well located in SW/4 NW/4, Section 13, Township 9 South, Range 16 East

API 43-013-32658

Federal 13-15-9-16 well located in SW/4 SW/4, Section 15, Township 9 South, Range 16 East

API 43-013-33136

Federal 7-17-9-16 well located in SW/4 NE/4, Section 17, Township 9 South, Range 16 East

API 43-013-33030

Federal 1-19-9-16 well located in NE/4 NE/4, Section 19, Township 9 South, Range 16 East

API 43-013-33062

Federal 5-19-9-16 well located in SW/4 NW/4, Section 19, Township 9 South, Range 16 East

API 43-013-33174

Federal 1-20-9-16 well located in NE/4 NE/4, Section 20, Township 9 South, Range 16 East

API 43-013-33066

Federal 3-20-9-16 well located in NE/4 NW/4, Section 20, Township 9 South, Range 16 East

API 43-013-33067

Federal 5-20-9-16 well located in SW/4 NW/4, Section 20, Township 9 South, Range 16 East

API 43-013-33104

Federal 9-20-9-16 well located in NE/4 SE/4, Section 20, Township 9 South, Range 16 East

API 43-013-33068

Federal 9-21-9-16 well located in NE/4 SE/4, Section 21, Township 9 South, Range 16 East

API 43-013-33145

Monument Federal 31-21-9-16Y well located in NW/4 NE/4, Section 21, Township 9 South, Range 16 East

API 43-013-31726

Federal 1-22-9-16 well located in NE/4 NE/4, Section 22, Township 9 South, Range 16 East

API 43-013-32612

Federal 7-22-9-16 well located in SW/4 NE/4, Section 22, Township 9 South, Range 16 East

API 43-013-33027

Federal 3-23-9-16 well located in NE/4 NW/4, Section 23, Township 9 South, Range 16 East

API 43-013-33176

Federal 11-23-9-16 well located in NE/4 SW/4, Section 23, Township 9 South, Range 16 East

API 43-013-33178

Federal 15-23-9-16 well located in SW/4 SE/4, Section 23, Township 9 South, Range 16 East

API 43-013-33182

Federal 3-24-9-16 well located in NE/4 NW/4, Section 24, Township 9 South, Range 16 East

API 43-013-33084

Federal 15-24-9-16 well located in SW/4 SE/4, Section 24, Township 9 South, Range 16 East

API 43-013-33344

Federal 21-25T well located in NE/4 NW/4, Section 25, Township 9 South, Range 16 East

API 43-013-31394

The proceeding will be conducted in accordance with Utah Admin. R649-10, Administrative Procedures.

Selected zones in the Green River Formation will be used for water injection. The maximum requested injection pressures and rates will be determined based on fracture gradient information submitted by Newfield Production Company.

Any person desiring to object to the application or otherwise intervene in the proceeding must file a written protest or notice of intervention with the Division within fifteen days following publication of this notice. The Division's Presiding Officer for the proceeding is Bra Hill, Permitting Manager, at P.O. Box 145801, Salt Lake City, UT 84114-5801, phone number (801) 538-5340. If such a protest or notice of intervention is received, a hearing will be scheduled in accordance with the aforementioned administrative procedural rule.

Protestants and/or intervenors should be prepared to demonstrate at the hearing how the matter affects their interests.

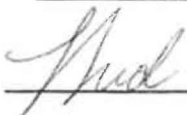
Dated this 22nd day of May, 2012.

STATE OF UTAH  
DIVISION OF OIL, GAS & MINING  
/s/Brad Hill  
Permitting Manager  
794885

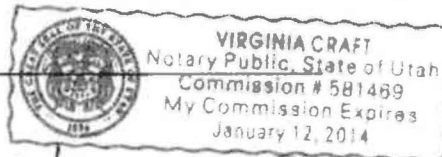
AFFIDAVIT OF PUBLICATION

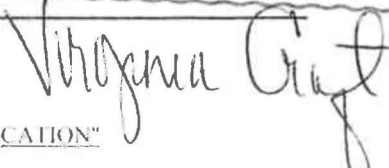
AS NEWSPAPER AGENCY COMPANY, LLC dba MEDIAONE OF UTAH LEGAL BOOKER, I CERTIFY THAT THE ABOVE MATTER WAS PUBLISHED IN THE SALT LAKE TRIBUNE, A PUBLICATION OF THE SALT LAKE TRIBUNE COMPANY, LLC dba MEDIAONE OF UTAH, AGENT FOR THE SALT LAKE TRIBUNE AND IN ENGLISH LANGUAGE WITH GENERAL CIRCULATION IN UTAH, AND PUBLISHED IN SALT LAKE CITY, UTAH, ON MAY 25, 2012. NOTICE IS ALSO POSTED ON UTAHLEGALS.COM ON THE SAME DAY AS THE FIRST NEWSPAPER PUBLICATION DATE AND REMAINS ON UTAHLEGALS.COM INDEFINITELY.

PUBLISHED ON Start 05/25/2012 End 05/25/2012

SIGNATURE 

5/25/2012





THIS IS NOT A STATEMENT BUT A "PROOF OF PUBLICATION"  
PLEASE PAY FROM BILLING STATEMENT

Send Payments to:  
 Uintah Basin Standard  
 268 S 200 E  
 Roosevelt, Utah 84066

Phone: 435-722-5131  
 Fax: 435-722-4140



Invoice Number      Invoice Date

30968

5/30/2012

Advertiser No.

Invoice Amount

Due Date

2080

\$191.45

6/29/2012

DIVISION OF OIL GAS & MINING  
 Rose Nolton  
 1594 W. N. TEMPLE STE 121  
 PO BOX 145801  
 SALT LAKE CITY, UT 84114-5801

RECEIVED  
 MAY 05 2012  
 DIV OF OIL GAS & MINING

1 1/2% fee will be charged to all  
 past due balances.

**Amount Enclosed**

Please detach top portion and return with your payment

**INVOICE**

Uintah Basin Standard

DIVISION OF OIL GAS & MINING

Invoice No. 30968

5/30/2012

Date	Order	Description	Ad Size	SubTotal	Sales Tax	Amount
5/30/2012	15615	UBS				
		UBS Legal Notice: Not of Agcy Actn: Newfield Cause No. UIC-392				\$191.45
		Pub. May 29, 2012				
				Sub Total:		\$191.45
Total Transactions: 1				Total:		\$191.45

**SUMMARY**      Advertiser No.      2080      Invoice No.      30968

1 1/2% fee will be charged to all past due balances.

Thank You for your business!

Thank you for advertising with us, we appreciate your business!

# AFFIDAVIT OF PUBLICATION

County of Duchesne,  
STATE OF UTAH

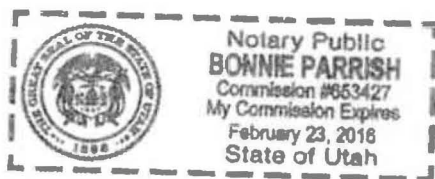
I, Kevin Ashby on oath, say that I am the PUBLISHER of the Uintah Basin Standard, a weekly newspaper of general circulation, published at Roosevelt, State and County aforesaid, and that a certain notice, a true copy of which is hereto attached, was published in the full issue such newspaper for 1 consecutive issues, and that the first publication was on the 29 day of May, 2012, and that the last publication of such notice was in the issue of such newspaper dated the 29 day of May, 2012, and that said notice was published on Utahlegals.com on the same day as the first newspaper publication and the notice remained on Utahlegals.com until the end of the scheduled run.

Kevin Ashby  
Publisher

Subscribed and sworn to before me on this

1 day of June, 2012  
by Kevin Ashby.

Bonnie Parrish  
Notary Public



## NOTICE OF AGENCY ACTION CAUSE NO. UIC-392

BEFORE THE DIVISION OF OIL, GAS AND MINING, DEPARTMENT OF NATURAL RESOURCES, STATE OF UTAH.

IN THE MATTER OF THE APPLICATION OF NEW-FIELD PRODUCTION COMPANY FOR ADMINISTRATIVE APPROVAL OF CERTAIN WELLS LOCATED IN SECTIONS 12, 13, 15, 17,

and 29, 2012.  
Published May 22  
ing.  
Planning at least 3 days  
call Duchesne County  
this meeting should  
accommodations for  
needing special ac-  
utah.gov. Persons  
mhyde@duchesne.  
Utah 84021 or email  
Box 317, Duchesne,  
County Planning, P.O.  
ments to: Duchesne  
1151. Or, send com-  
Hyde at (435) 738-  
mation contact Mike  
For further infor-  
esne, Utah.  
Center Street, Duch-  
Building, 734 North  
County Administration  
Chambers, Duchesne  
PM in the Commission  
ing, beginning at 1:30  
June 18, 2012 meet-  
#12-302 during their  
proposed Ordinance  
recommendation and  
Planning Commission  
lic hearing to review the  
ers will conduct a pub-  
County Commission-  
The Duchesne  
residential areas.  
of livestock kept in  
restrict the numbers

## LEGAL N Your Right

Christensen, located on the south side of Highway 87 (Ioka Lane) and the west side of 4000 West, in the NE ¼ of the NE ¼ of Section 2, Township 3 South, Range 2 West.

The Duchesne County Commissioners will conduct a public hearing to review the Planning Commission recommendation and proposed rezoning ordinance during their June 18, 2012 meeting, beginning at 1:30 PM in the Commission Chambers, Duchesne County Administration Building, 734 North Center Street, Duchesne, Utah.

For further information contact Mike

## SERET P TRIC COOP

## ATORY TECHN CHEMIST

s an electrical utility states. We have ar a Laboratory Tech a 500 MW coal-fi al, Utah.

candidate will be re le, and take indepen on high pressure O<sub>2</sub> scrubbers, demin potable water, and r candidate must also yondensate polishers, bulk chemical handl mputer literate and software.

High School graduat experience as a jo nician in an industria

BEFORE THE DIVISION OF OIL, GAS AND MINING  
DEPARTMENT OF NATURAL RESOURCES  
STATE OF UTAH  
NOTICE OF AGENCY ACTION  
CAUSE NO. UIC-392

IN THE MATTER OF THE APPLICATION OF NEWFIELD PRODUCTION COMPANY FOR ADMINISTRATIVE APPROVAL OF CERTAIN WELLS LOCATED IN SECTIONS 12, 13, 15, 17, 19, 20, 21, 22, 23, 24, AND 25, TOWNSHIP 9 SOUTH, RANGE 16 EAST, DUCHESNE COUNTY, UTAH, AS CLASS II INJECTION WELLS.

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API 43-013-32658  
Federal 13-15-9-16 well located in SW/4 SW/4, Section 15, Township 9 South, Range 16 East  
API 43-013-33136  
Federal 7-17-9-16 well located in SW/4 NE/4, Section 17, Township 9 South, Range 16 East  
API 43-013-33030  
Federal 1-19-9-16 well located in NE/4 NE/4, Section 19, Township 9 South, Range 16 East  
API 43-013-33062  
Federal 5-19-9-16 well located in SW/4 NW/4, Section 19, Township 9 South, Range 16 East  
API 43-013-33174  
Federal 1-20-9-16 well located in NE/4 NE/4, Section 20, Township 9 South, Range 16 East  
API 43-013-33066  
Federal 3-20-9-16 well located in NE/4 NW/4, Section 20, Township 9 South, Range 16 East  
API 43-013-33067  
Federal 5-20-9-16 well located in SW/4 NW/4, Section 20, Township 9 South, Range 16 East  
API 43-013-33104  
Federal 9-20-9-16 well located in NE/4 SE/4, Section 20, Township 9 South, Range 16 East  
API 43-013-33068  
Federal 9-21-9-16 well located in NE/4 SE/4, Section 21, Township 9 South, Range 16 East  
API 43-013-33145  
Monument Federal 31-21-9-16Y well located in NW/4 NE/4, Section 21, Township 9 South, Range 16 East  
API 43-013-31726  
Federal 1-22-9-16 well located in NE/4 NE/4, Section 22, Township 9 South, Range 16 East  
API 43-013-32612  
Federal 7-22-9-16 well located in SW/4 NE/4, Section 22, Township 9 South, Range 16 East  
API 43-013-33027  
Federal 3-23-9-16 well located in NE/4 NW/4, Section 23, Township 9 South, Range 16 East  
API 43-013-33176

Federal 11-23-9-16 well located in NE/4 SW/4, Section 23, Township 9 South, Range 16 East  
API 43-013-33178  
Federal 15-23-9-16 well located in SW/4 SE/4, Section 23, Township 9 South, Range 16 East  
API 43-013-33182  
Federal 3-24-9-16 well located in NE/4 NW/4, Section 24, Township 9 South, Range 16 East  
API 43-013-33084  
Federal 15-24-9-16 well located in SW/4 SE/4, Section 24, Township 9 South, Range 16 East  
API 43-013-33344  
Federal 21-25Y well located in NE/4 NW/4, Section 25, Township 9 South, Range 16 East  
API 43-013-31394

The proceeding will be conducted in accordance with Utah Admin. R649-10, Administrative Procedures.

Selected zones in the Green River Formation will be used for water injection. The maximum requested injection pressures and rates will be determined based on fracture gradient information submitted by Newfield Production Company.

Any person desiring to object to the application or otherwise intervene in the proceeding, must file a written protest or notice of intervention with the Division within fifteen days following publication of this notice. The Division's Presiding Officer for the proceeding is Brad Hill, Permitting Manager, at P.O. Box 145801, Salt Lake City, UT 84114-5801, phone number (801) 538-5340. If such a protest or notice of intervention is received, a hearing will be scheduled in accordance with the aforementioned administrative procedural rules. Protestants and/or interveners should be prepared to demonstrate at the hearing how this matter affects their interests.

Dated this 22<sup>nd</sup> day of May, 2012.

STATE OF UTAH  
DIVISION OF OIL, GAS & MINING



---

Brad Hill  
Permitting Manager

**Newfield Production Company**

**MONUMENT FEDERAL 22-12J, FEDERAL 5-13-9-16, FEDERAL 13-15-9-16, FEDERAL 7-17-9-16, FEDERAL 1-19-9-16, FEDERAL 5-19-9-16, FEDERAL 1-20-9-16, FEDERAL 3-20-9-16, FEDERAL 5-20-9-16, FEDERAL 9-20-9-16, FEDERAL 9-21-9-16, MONUMENT FEDERAL 31-21-9-16Y, FEDERAL 1-22-9-16, FEDERAL 7-22-9-16, FEDERAL 3-23-9-16, FEDERAL 11-23-9-16, FEDERAL 15-23-9-16, FEDERAL 3-24-9-16, FEDERAL 15-24-9-16, FEDERAL 21-25Y**

**Cause No. UIC-392**

Publication Notices were sent to the following:

Newfield Production Company  
1001 17th Street, Suite 2000  
Denver, CO 80202

Uintah Basin Standard  
268 S 200 E  
Roosevelt, UT 84066  
via e-mail [ubs@ubstandard.com](mailto:ubs@ubstandard.com)

Salt Lake Tribune  
P O Box 45838  
Salt Lake City, UT 84145  
via e-mail [naclegal@mediaoneutah.com](mailto:naclegal@mediaoneutah.com)

Vernal Office  
Bureau of Land Management  
170 S 500 E  
Vernal, UT 84078

SITLA  
675 E 500 S Ste 500  
Salt Lake City, UT 84102-2818

Duchesne County Planning  
P O Box 317  
Duchesne, UT 84021-0317

Bruce Suchomel  
US EPA Region 8  
MS 8P-W-GW  
1595 Wynkoop Street  
Denver, CO 80202-1129

Newfield Production Company  
Rt 3 Box 3630  
Myton, UT 84052

  
\_\_\_\_\_



GARY R. HERBERT  
Governor

GREGORY S. BELL  
Lieutenant Governor

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

### Division of Oil, Gas and Mining

JOHN R. BAZA  
Division Director

May 22, 2012

Via e-mail [legals@ubstandard.com](mailto:legals@ubstandard.com)

Uintah Basin Standard  
268 South 200 East  
Roosevelt, UT 84066

Subject: Notice of Agency Action – Newfield Production Company Cause No. UIC-392

To Whom It May Concern:

Enclosed is a copy of the referenced Notice of Agency Action. Please publish the Notice, once only, as soon as possible. Please notify me via e-mail of the date it will be published. My e-mail address is: [jsweet@utah.gov](mailto:jsweet@utah.gov).

Please send proof of publication and billing to:

Division of Oil, Gas and Mining  
PO Box 145801  
Salt Lake City, UT 84114-5801

Sincerely,

Jean Sweet  
Executive Secretary

Enclosure



**Jean Sweet - Re: Notice of Agency Action – Newfield Production Company Cause No. UIC-392**

---

**From:** Cindy Kleinfelter <classifieds@ubstandard.com>  
**To:** Jean Sweet <jsweet@utah.gov>  
**Date:** 5/23/2012 3:07 PM  
**Subject:** Re: Notice of Agency Action – Newfield Production Company Cause No. UIC-392

---

On 5/22/2012 2:09 PM, Jean Sweet wrote:

To Whom It May Concern:

Enclosed is a copy of the referenced Notice of Agency Action. Please publish the Notice, once only, as soon as possible. Please notify me via e-mail of the date it will be published. My e-mail address is: [jsweet@utah.gov](mailto:jsweet@utah.gov).

Please send proof of publication and billing to:

Division of Oil, Gas and Mining  
PO Box 145801  
Salt Lake City, UT 84114-5801

Sincerely,

Jean Sweet, Executive Secretary  
Utah Div. of Oil, Gas & Mining  
1594 West Temple, Suite 1210  
Salt Lake City, UT  
801-538-5329  
[jsweet@utah.gov](mailto:jsweet@utah.gov)

It will be in the May 29 edition.

Thank you.

Cindy



GARY R. HERBERT  
Governor

GREGORY S. BELL  
Lieutenant Governor

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

### Division of Oil, Gas and Mining

JOHN R. BAZA  
Division Director

May 22, 2012

Via e-mail [naclegal@mediaoneutah.com](mailto:naclegal@mediaoneutah.com)

Salt Lake Tribune  
P. O. Box 45838  
Salt Lake City, UT 84145

Subject: Notice of Agency Action – Newfield Production Company Cause No. UIC-392

To Whom It May Concern:

Enclosed is a copy of the referenced Notice of Agency Action. Please publish the Notice, once only, as soon as possible. Please notify me via e-mail of the date it will be published. My e-mail address is: [jsweet@utah.gov](mailto:jsweet@utah.gov).

Please send proof of publication and billing for **account #9001402352** to:

Division of Oil, Gas and Mining  
PO Box 145801  
Salt Lake City, UT 84114-5801

Sincerely,

Jean Sweet  
Executive Secretary

Enclosure



**From:** "Fultz, Mark" <naclegal@mediaoneutah.com>  
**To:** <jsweet@utah.gov>  
**Date:** 5/22/2012 2:32 PM  
**Subject:** Proof for Notice of Agency Action  
**Attachments:** OrderConf.pdf

AD# 794885  
Run SL Trib 5/25/12  
Cost \$331.25  
Please advise of any changes  
Thank You  
Ken

**Order Confirmation for Ad #0000794885-01**

<b>Client</b>	DIV OF OIL-GAS & MINING	<b>Payor Customer</b>	DIV OF OIL-GAS & MINING
<b>Client Phone</b>	801-538-5340	<b>Payor Phone</b>	801-538-5340
<b>Account#</b>	[REDACTED]	<b>Payor Account</b>	[REDACTED]
<b>Address</b>	1594 W NORTH TEMP #1210, P.O. BOX 145801 SALT LAKE CITY, UT 84114 USA	<b>Payor Address</b>	1594 W NORTH TEMP #1210, P.O. BOX SALT LAKE CITY, UT 84114
<b>Fax</b>	801-359-3940	<b>Ordered By</b>	<b>Acct. Exec</b>
<b>Email</b>	earlenerussell@utah.gov	Jean	kstowe

**Total Amount**                **\$331.25****Payment Amt**                **\$0.00**

	<u><b>Tear Sheets</b></u>	<u><b>Proofs</b></u>	<u><b>Affidavits</b></u>
<b>Amount Due</b>	<b>\$331.25</b>	0	0

**Payment Method**                                **PO Number**    Newfield Prod UIC-392**Confirmation Notes:****Text:**                Jean

<b>Ad Type</b>	<b>Ad Size</b>	<b>Color</b>
Legal Liner	3.0 X 87 Li	<NONE>

<u><b>Product</b></u>	<u><b>Placement</b></u>	<u><b>Position</b></u>
Salt Lake Tribune::	Legal Liner Notice - 0998	Public Meeting/Hear-ing Notices
<b>Scheduled Date(s):</b>	05/25/2012	

<u><b>Product</b></u>	<u><b>Placement</b></u>	<u><b>Position</b></u>
sltrib.com::	Legal Liner Notice - 0998	Public Meeting/Hear-ing Notices
<b>Scheduled Date(s):</b>	05/25/2012	

<u><b>Product</b></u>	<u><b>Placement</b></u>	<u><b>Position</b></u>
utahlegals.com::	utahlegals.com	utahlegals.com
<b>Scheduled Date(s):</b>	05/25/2012	

**Order Confirmation**  
**for Ad #0000794885-01**
**Ad Content Proof Actual Size**

## Order Confirmation for Ad #0000794885-01

Ad Content Proof 135%

BEFORE THE DIVISION OF OIL, GAS AND MINING  
DEPARTMENT OF NATURAL RESOURCES  
STATE OF UTAH  
NOTICE OF AGENCY ACTION  
CAUSE NO. UIC-392

IN THE MATTER OF THE APPLICATION OF NEWFIELD PRODUCTION COMPANY FOR ADMINISTRATIVE APPROVAL OF CERTAIN WELLS LOCATED IN SECTIONS 12, 13, 15, 17, 19, 20, 21, 22, 23, 24, AND 25, TOWNSHIP 9 SOUTH, RANGE 16 EAST, DUCHESNE COUNTY, UTAH, AS CLASS II INJECTION WELLS.

THE STATE OF UTAH TO ALL PERSONS INTERESTED IN THE ABOVE ENTITLED MATTER.

Notice is hereby given that the Division of Oil, Gas and Mining (the "Division") is commencing an informal adjudicative proceeding to consider the application of Newfield Production Company, 1001 17th Street, Suite 2000, Denver, Colorado 80202, telephone 303-893-0102, for administrative approval of the following wells located in Duchesne County, Utah, for conversion to Class II injection wells:

Greater Monument Butte Unit:

Monument Federal 22-12J well located in SE/4 NW/4, Section 12, Township 9 South, Range 16 East

API 43-013-15796

Federal 5-13-9-16 well located in SW/4 NW/4, Section 13, Township 9 South, Range 16 East

API 43-013-32658

Federal 13-15-9-16 well located in SW/4 SW/4, Section 15, Township 9 South, Range 16 East

API 43-013-33136

Federal 7-17-9-16 well located in SW/4 NE/4, Section 17, Township 9 South, Range 16 East

API 43-013-33030

Federal 1-19-9-16 well located in NE/4 NE/4, Section 19, Township 9 South, Range 16 East

API 43-013-33062

Federal 5-19-9-16 well located in SW/4 NW/4, Section 19, Township 9 South, Range 16 East

API 43-013-33174

Federal 1-20-9-16 well located in NE/4 NE/4, Section 20, Township 9 South, Range 16 East

API 43-013-33066

Federal 3-20-9-16 well located in NE/4 NW/4, Section 20, Township 9 South, Range 16 East

API 43-013-33067

Federal 5-20-9-16 well located in SW/4 NW/4, Section 20, Township 9 South, Range 16 East

API 43-013-33104

Federal 9-20-9-16 well located in NE/4 SE/4, Section 20, Township 9 South, Range 16 East

API 43-013-33068

Federal 9-21-9-16 well located in NE/4 SE/4, Section 21, Township 9 South, Range 16 East

API 43-013-33145

Monument Federal 31-21-9-16Y well located in NW/4 NE/4, Section 21, Township 9 South, Range 16 East

API 43-013-31726

Federal 1-22-9-16 well located in NE/4 NE/4, Section 22, Township 9 South, Range 16 East

API 43-013-32612

Federal 7-22-9-16 well located in SW/4 NE/4, Section 22, Township 9 South, Range 16 East

API 43-013-33027

Federal 3-23-9-16 well located in NE/4 NW/4, Section 23, Township 9 South, Range 16 East

API 43-013-33176

Federal 11-23-9-16 well located in NE/4 SW/4, Section 23, Township 9 South, Range 16 East

API 43-013-33178

Federal 15-23-9-16 well located in SW/4 SE/4, Section 23, Township 9 South, Range 16 East

API 43-013-33182

Federal 3-24-9-16 well located in NE/4 NW/4, Section 24, Township 9 South, Range 16 East

API 43-013-33084

Federal 15-24-9-16 well located in SW/4 SE/4, Section 24, Township 9 South, Range 16 East

API 43-013-33344

Federal 21-25Y well located in NE/4 NW/4, Section 25, Township 9 South, Range 16 East

API 43-013-31394

The proceeding will be conducted in accordance with Utah Admin. R649-10, Administrative Procedures.

Selected zones in the Green River Formation will be used for water injection. The maximum requested injection pressures and rates will be determined based on fracture gradient information submitted by Newfield Production Company.

Any person desiring to object to the application or otherwise intervene in the proceeding, must file a written protest or notice of intervention with the Division within fifteen days following publication of this notice. The Division's Presiding Officer for the proceeding is Brad Hill, Permitting Manager, at P.O. Box 145801, Salt Lake City, UT 84114-5801, phone number (801) 538-5340. If such a protest or notice of intervention is received, a hearing will be scheduled in accordance with the aforementioned administrative procedural rules. Protestants and/or interveners should be prepared to demonstrate at the hearing how this matter affects their interests.

Dated this 22nd day of May, 2012.

STATE OF UTAH

DIVISION OF OIL, GAS & MINING

/s/ Brad Hill

Permitting Manager

794885

UPAXLP



April 30, 2012

Mr. Mark Reinbold  
State of Utah  
Division of Oil, Gas and Mining  
1594 W North Temple  
Salt Lake City, Utah 84114-5801

RE: Permit Application for Water Injection Well  
Federal #15-23-9-16  
Monument Butte Field, Lease #UTU-15855  
Section 23-Township 9S-Range 16E  
Duchesne County, Utah

Dear Mr. Reinbold:

Newfield Production Company herein requests approval to convert the Federal #15-23-9-16 from a producing oil well to a water injection well in the Monument Butte (Green River) Field.

I hope you find this application complete; however, if you have any questions or require additional information, please contact me at (303) 893-0102.

Sincerely,

A handwritten signature in black ink, appearing to read "Eric Sundberg". The signature is fluid and extends horizontally across the page.

Eric Sundberg  
Regulatory Lead

**RECEIVED**

**MAY 01 2012**

**DIV OF OIL, GAS, & MINING**


**NEWFIELD PRODUCTION COMPANY**  
**APPLICATION FOR APPROVAL OF CLASS II INJECTION WELL**  
**FEDERAL #15-23-9-16**  
**MONUMENT BUTTE FIELD (GREEN RIVER) FIELD**  
**LEASE #UTU-15855**  
**APRIL 30, 2012**

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## APPLICATION FOR INJECTION WELL - UIC FORM 1

OPERATOR	Newfield Production Company
ADDRESS	1001 17th Street, Suite 2000
	Denver, Colorado 80202

Well Name and number: <u>Federal #15-23-9-16</u>	
Field or Unit name: <u>Monument Butte (Green River)</u>	Lease No. <u>UTU-15855</u>
Well Location: QQ <u>SWSE</u> section <u>23</u> township <u>9S</u> range <u>16E</u> county <u>Duchesne</u>	
Is this application for expansion of an existing project? ..... Yes [ X ] No [ ]	
Will the proposed well be used for:	
Enhanced Recovery? .....	Yes [ X ] No [ ]
Disposal? .....	Yes [ ] No [ X ]
Storage? .....	Yes [ ] No [ X ]
Is this application for a new well to be drilled? ..... Yes [ ] No [ X ]	
If this application is for an existing well,	
has a casing test been performed on the well? ..... Yes [ ] No [ X ]	
Date of test: _____	
API number: <u>43-013-33182</u>	
Proposed injection interval: from <u>3743</u> to <u>5300</u>	
Proposed maximum injection: rate <u>500 bpd</u> pressure <u>1434</u> psig	
Proposed injection zone contains [ x ] oil, [ ] gas, and/or [ ] fresh water within 1/2 mile of the well.	
<div style="border: 1px solid black; padding: 5px; text-align: center;">IMPORTANT: Additional information as required by R615-5-2 should accompany this form.</div>	
List of Attachments: <u>Attachments "A" through "H-1"</u>	
I certify that this report is true and complete to the best of my knowledge.	
Name: <u>Eric Sundberg</u>	Signature <u></u>
Title: <u>Regulatory Lead</u>	Date <u>4/30/12</u>
Phone No. <u>(303) 893-0102</u>	
(State use only)	
Application approved by _____	Title _____
Approval Date _____	

# FEDERAL 15-23-9-16

Spud Date: 11/26/07  
Put on Production: 3/14/08  
GL: 5784' KB: 5796'

Initial Production: BOPD,  
MCFD, BWPD

## Proposed Injection Wellbore Diagram

### SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 jts (310.15')  
DEPTH LANDED: 322.00' KB  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 1- 160, sxs Class "G" cmt, est 5 bbls cmt to surf.

### PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 136 jts (5779.63')  
DEPTH LANDED: 5792.88' KB  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 300 sxs Prem Lite II mixed & 400 sxs 50/50 POZ.  
CEMENT TOP: 156'

### TUBING

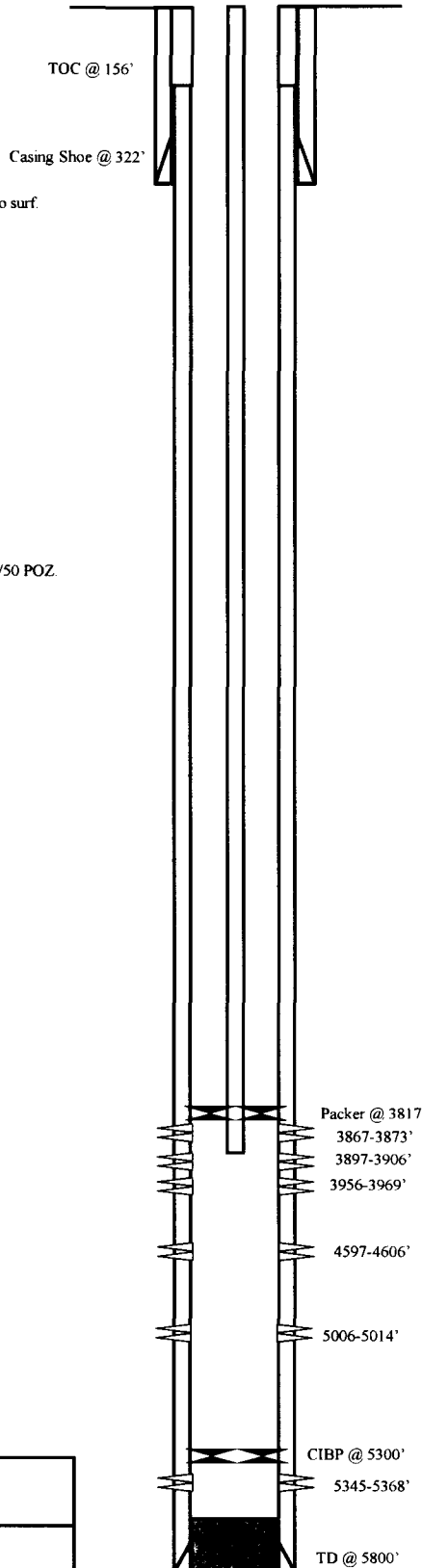
SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
NO. OF JOINTS: 158 jts (4964.4')  
TUBING ANCHOR: 4976.4' KB  
NO. OF JOINTS: 1 jts (31.4')  
SEATING NIPPLE: 2-7/8" (1.10')  
SN LANDED AT: 5010.6' KB  
NO. OF JOINTS: 2 jts (62.7')  
TOTAL STRING LENGTH: EOT @ 5075' KB

### FRAC JOB

01/07/08	5345-5368'	<b>Frac CP2 sands as follows:</b> 73000# 20/40 sand in 603 bbls Lightning 17 frac fluid. Treated @ avg press of 1939 psi w/avg rate of 23.2 BPM. ISIP 2177 psi.
03/11/08	5006-5014'	<b>Frac L.ODC sands as follows:</b> 40149# 20/40 sand in 417 bbl Lightning 17 frac fluid. Treated @ avg press of 2660 psi w/avg rate of 26.2 BPM. ISIP 3080 psi.
03/11/08	4597-4606'	<b>Frac C sands as follows:</b> 15394# 20/40 sand in 262 bbls Lightning 17 frac fluid. Treated @ avg press of 2078 psi w/avg rate of 23.3 BPM. ISIP 2078 psi.
03/11/08	3956-3969'	<b>Frac GB6 sands as follows:</b> 79237# 20/40 sand in 602 bbls Lightning 17 frac fluid. Treated @ avg press of 1468 psi w/avg rate of 26.2 BPM. ISIP 1460 psi.
03/11/08	3867-3906'	<b>Frac GB4 &amp; GB2 sands as follows:</b> 25572# 20/40 sand in 325 bbls Lightning 17 frac fluid. Treated @ avg press of 1710 psi w/avg rate of 25.9 BPM. ISIP 1585 psi.
12/30/08		Parted rods. Updated r & t details
02/03/11		Tubing Leak. Updated R & T details

### PERFORATION RECORD

5345-5368'	4 JSPF	92 holes
5006-5014'	4 JSPF	32 holes
4597-4606'	4 JSPF	36 holes
3956-3969'	4 JSPF	52 holes
3897-3906'	4 JSPF	36 holes
3867-3873'	4 JSPF	24 holes



**NEWFIELD**

**FEDERAL 15-23-9-16**

603' FSL & 2162' FEL

SW/SE Section 23-T9S-R16E

Duchesne Co, Utah

API #43-013-33182; Lease # UTU-15855

## **WORK PROCEDURE FOR INJECTION CONVERSION**

1. Rig up hot oil truck to casing. Pump water. Unseat pump. Flush rods. Trip out of hole with rods and pump.
2. Trip out of hole with tubing, breaking and doping every connection. Trip in hole with packer and tubing. Rig up water truck to casing. Pump packer fluid. Set packer.
3. Test casing and packer.
4. Rig down and move out.

**REQUIREMENTS FOR INJECTION OF FLUIDS INTO RESERVOIRS  
RULE R615-5-1**

- 1. Operations to increase ultimate recovery, such as cycling of gas, the maintenance of pressure, the introduction of gas, water or other substances into a reservoir for the purpose of secondary or other enhanced recovery or for storage and the injection of water into any formation for the purpose of water disposal shall be permitted only by order of the Board after notice and hearing.**
- 2. A request for agency action for authority for the injection of gas, liquified petroleum gas, air, water or any other medium into any formation for any reason, including but not necessarily limited to the establishment of or the expansion of waterflood projects, enhanced recovery projects, and pressure maintenance projects shall contain:**
  - 2.1 The name and address of the operator of the project.**

Newfield Production Company  
1001 17<sup>th</sup> Street, Suite 2000  
Denver, Colorado 80202
  - 2.2 A plat showing the area involved and identifying all wells, including all proposed injection wells, in the project area and within one-half mile of the project area.**

See Attachment A.
  - 2.3 A full description of the particular operation for approval is requested.**

Approval is requested to convert the Federal #15-23-9-16 from a producing oil well to a water injection well in Monument Butte (Green River) Field.
  - 2.4 A description of the pools from which the identified wells are producing or have produced.**

The proposed injection well will inject into the Green River Formation.
  - 2.5 The names, description and depth of the pool or pools to be affected.**

The injection zone is in the Green River Formation. For the Federal #15-23-9-16 well, the proposed injection zone is from Garden Gulch to Basal Carbonate (3743' - 5300'). The confining strata directly above and below the injection zones are the Garden Gulch and the top of the Wasatch Formation or TD, which ever is shallower. The Garden Gulch Marker top is at 3422' and the TD is at 5800'.
  - 2.6 A copy of a log of a representative well completed in the pool.**

The referenced log for the Federal #15-23-9-16 is on file with the Utah Division of Oil, Gas and Mining.

- 2.7 A statement as to the type of fluid to be used for injection, its source and the estimated amounts to be injected daily.**

The primary type and source of fluid to be used for injection will be culinary water commingled with produced water. The average estimated injection of fluids will be at a rate of 300 BPD, and the estimated maximum injection will be at a rate of 500 BPD.

- 2.8 A list of all operators and surface owners within one-half mile radius of the proposed project.**

See Attachment B.

- 2.9 An affidavit certifying that said operators or owners and surface owners within a one-half mile radius have been provided a copy of the petition for injection.**

See Attachment C.

- 2.10 Any additional information the Board may determine is necessary to adequately review the petition.**

Newfield Production Company will supply any additional information requested by the Utah Division of Oil, Gas and Mining.

- 4.0 Establish recovery projects may be expanded and additional wells placed on injection only upon authority from the Board after notice and hearing or by administrative approval.**

This proposed injection well is on a Federal lease (Lease #UTU-15855) in the Monument Butte Federal (Green River) Field, and this request is for administrative approval.

**REQUIREMENTS FOR CLASS II INJECTION WELLS INCLUDING WATER DISPOSAL,  
STORAGE AND ENHANCED RECOVERY WELLS  
SECTION V – RULE R615-5-2**

- 1. Injection well shall be completed, equipped, operated, and maintained in a manner that will prevent pollution and damage to any USDW, or other resources and will confine injected fluids to the interval approved.**
- 2. The application for an injection well shall include a properly completed Form DOGM-UIC-1 and the following:**

- 2.1 A plat showing the location of the injection well, all abandoned or active wells within a one-half mile radius of the proposed wells, and the surface owner and the operator of any lands or producing leases, respectively, within a one-half mile radius of the proposed injection well.**

See Attachments A and B.

- 2.2 Copies of electrical or radioactive logs, including gamma ray logs, for the proposed well run prior to the installation of casing and indicating resistivity, spontaneous potential, caliper and porosity.**

All logs are on file with the Utah Division of Oil, Gas and Mining.

- 2.3 A copy of a cement bond or comparable log run for the proposed injection well after casing was set and cemented.**

A copy of the cement bond log is on file with the Utah Division of Oil, Gas and Mining.

- 2.4 Copies of logs already on file with the Division should be referenced, but need not be refiled.**

All copies of logs are on file with the Utah Division of Oil, Gas and Mining.

- 2.5 A description of the casing or proposed casing program of the injection well and of the proposed method for testing the casing before use of the well.**

The casing program is 8-5/8", 24# surface casing run to 322' KB, and 5-1/2", 15.5# casing run from surface to 5793' KB. A casing integrity test will be conducted at the time of conversion. See Attachment E.

- 2.6 A statement as to the type of fluid to be used for injection, its source and estimated amounts to be injected daily.**

The primary type and source of fluid to be used for injection will be culinary water commingled with produced water. The estimated average rate of injection will be 300 BPD, and the estimated maximum rate of injection will be 500 BPD.

- 2.7 Standard laboratory analysis of the fluid to be injected, the fluid in the formation into which the fluid is being injected, and the compatibility of the fluids.**

See Attachment F.

**The proposed average and maximum injection pressures.**

The proposed average injection pressure will be approximately 1100 psig and the maximum injection pressure will not exceed 1434 psig.

**2.8 Evidence and data to support a finding that the proposed injection well will not initiate fractures through the overlying strata or a confining interval that could enable the injected fluid or formation fluid to enter the fresh water strata.**

The minimum fracture gradient for the Federal #15-23-9-16, for existing perforations (3867' - 5368') calculates at 0.80 psig/ft. The maximum injection pressures will be limited so as not to exceed this gradient. A step rate test will be performed periodically to ensure we are below parting pressure. The proposed maximum injection pressure is 1434 psig. We may add additional perforations between 3422' and 5800'. See Attachments G and G-1.

**2.9 Appropriate geological data on the injection interval and confining beds, including the geologic name, lithologic description, thickness, depth, and lateral extent.**

In the Federal #15-23-9-16, the proposed injection zone (3743' - 5300') is in the Garden Gulch to the Basal Carbonate of the Green River Formation. The reservoir is a very fine-grained sandstone with minor imbedded shale streaks. The estimated porosity is 13%. The members are composed of porous and permeable lenticular calcareous sandstone and low porosity carbonates and calcareous shale. The porous and lenticular sandstone varies in thickness from 0-31' and is confined to the Monument Butte Federal Field. Outside the Monument Butte Federal Field, the sandstone is composed of tight, very fine, silty, calcareous sandstone, less than 3' thick. The stratum confining the injection zone is composed of tight, moderately calcareous, sandy lacustrine shale. All of the confining strata are impermeable, and will effectively seal off the oil, gas, and water of the injection zone from any strata directly above or below it.

**2.10 A review of the mechanical condition of each well within a one-half mile radius of the proposed injection well to assure that no conduit exists that could enable fluids to migrate up or down the wellbore and enter the improper intervals.**

See Attachments E through E-7.

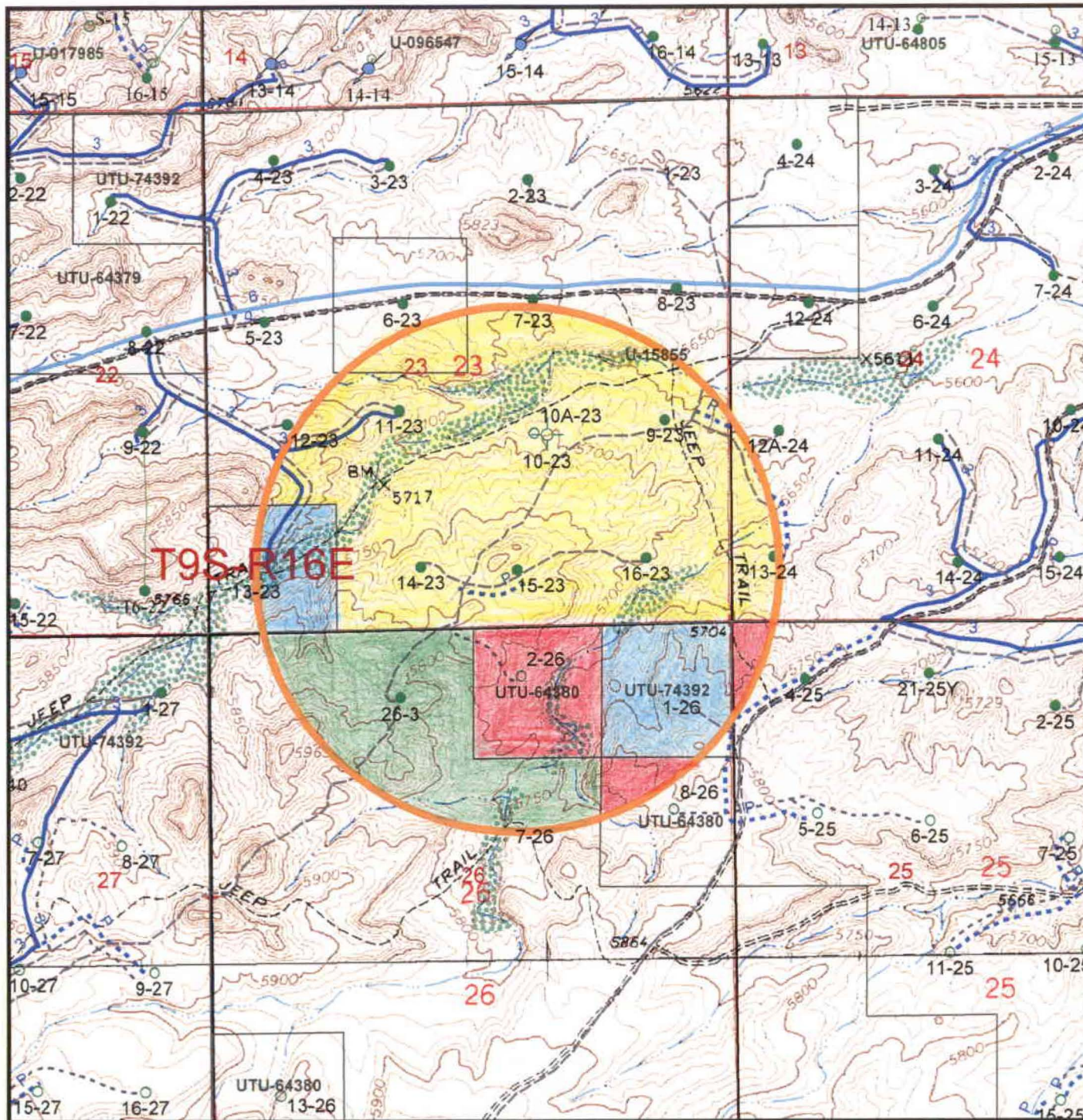
Additionally, the injection system will be equipped with high and low pressure shut down devices that will automatically shut in injection waters if a system blockage or leakage occurs. One way check valves will also ensure proper flow management. Relief valves will also be utilized for high-pressure relief.

**2.11 An affidavit certifying that a copy of the application has been provided to all operators or owners, and surface owners within a one-half mile radius of the proposed injection well.**

See Attachment C.

**2.12 Any other information that the Board or Division may determine is necessary to adequately review the application.**

Newfield Production Company will supply any requested information to the Board or Division.



- WellStatus\_HalfMile\_Buffer**
- Well Status**
- Location
  - CTI
  - Surface Spud
  - Drilling
  - Waiting on Completion
  - Producing Oil Well
  - Producing Gas Well
  - Water Injection Well
  - Dry Hole
  - Temporarily Abandoned
  - Plugged & Abandoned
  - Shut In
- Countyline**
- Injection system**
- high pressure
  - low pressure
  - proposed
  - return
  - return proposed
- Leases**
- Mining tracts**

UTU-15855

UTU-64380

UTU-74392

UTU-67844

Federal 15-23  
Section 23, T9S-R16E



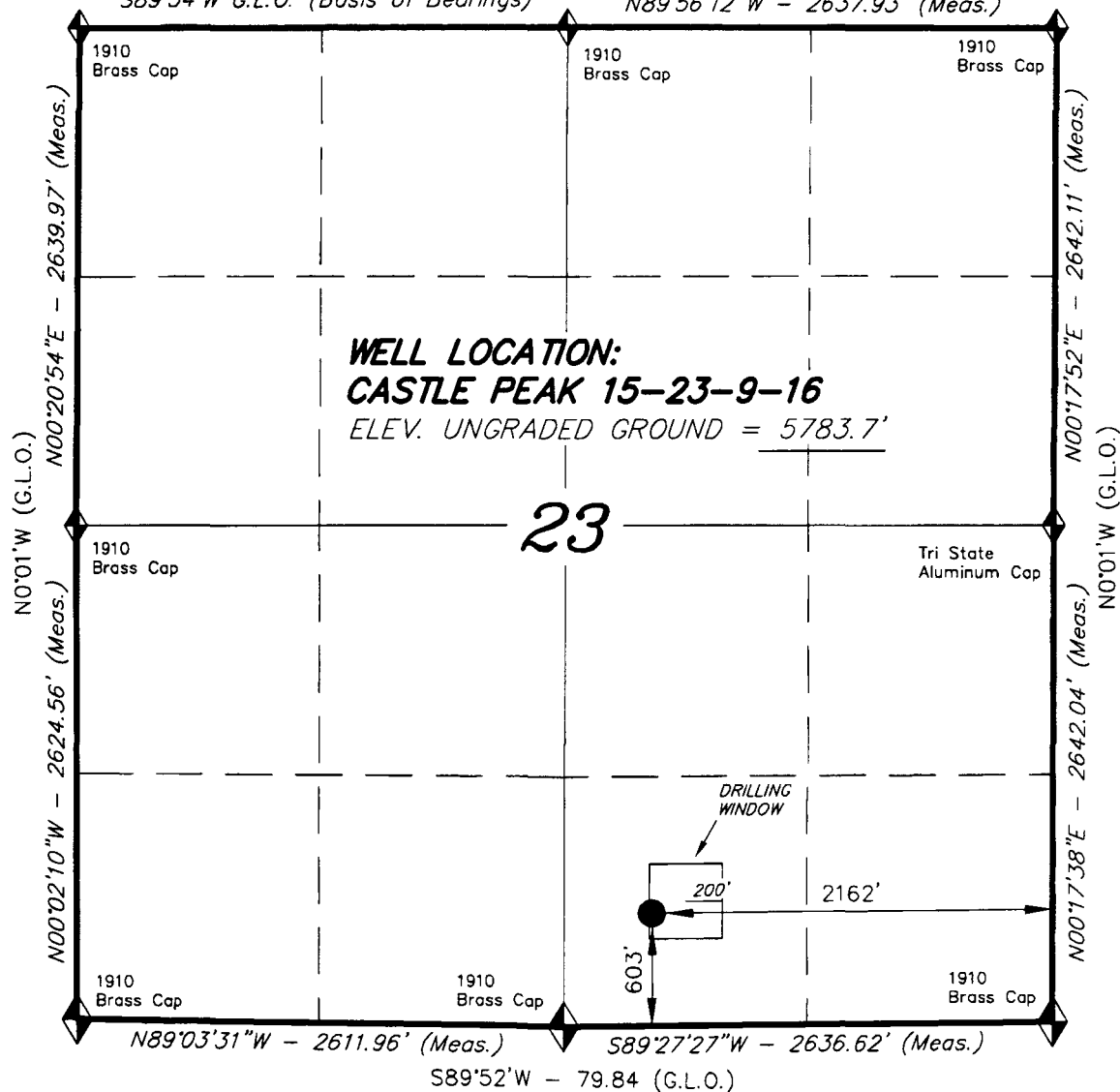
1/2 Mile Radius Map  
Duchesne & Uintah Counties

1001 17th Street Suite 2000  
Denver, Colorado 80202  
Phone: (303) 883-0102

March 13, 2012

# T9S, R16E, S.L.B.&M.

2623.06' (Measured) S89°54'W - 79.82 (G.L.O.)  
S89°54'W G.L.O. (Basis of Bearings) N89°56'12"W - 2637.93' (Meas.)



◆ = SECTION CORNERS LOCATED

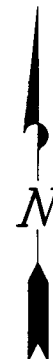
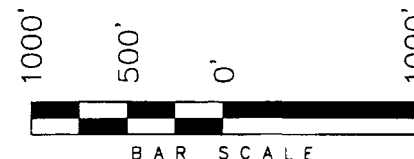
BASIS OF ELEV;  
U.S.G.S. 7-1/2 min QUAD (MYTON SE)

CASTLE PEAK 15-23-9-16  
(Surface Location) NAD 83  
LATITUDE = 40° 00' 38.56"  
LONGITUDE = 110° 05' 05.75"

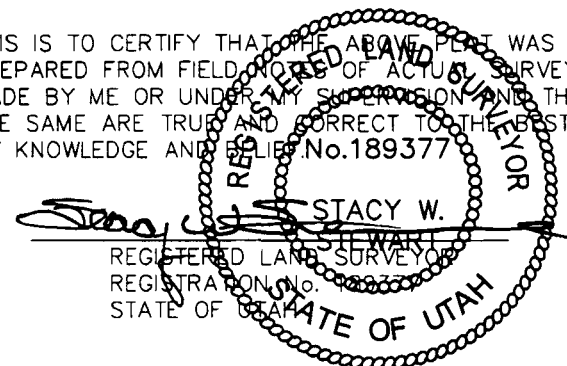
## NEWFIELD PRODUCTION COMPANY

WELL LOCATION, CASTLE PEAK 15-23-9-16,  
LOCATED AS SHOWN IN THE SW 1/4 SE 1/4  
OF SECTION 23, T9S, R16E, S.L.B.&M.  
DUCHESNE COUNTY, UTAH.

## ATTACHMENT A-1



THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS  
PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS  
MADE BY ME OR UNDER MY SUPERVISION AND THAT  
THE SAME ARE TRUE AND CORRECT TO THE BEST OF  
MY KNOWLEDGE AND BELIEF. No. 189377



## TRI STATE LAND SURVEYING & CONSULTING

180 NORTH VERNAL AVE. - VERNAL, UTAH 84078  
(435) 781-2501

DATE SURVEYED: 4-19-06	SURVEYED BY: C.M.
DATE DRAWN: 04-24-06	DRAWN BY: F.T.M.
REVISED:	SCALE: 1" = 1000'

**EXHIBIT B**

#	Legal Description	Lessor & Expiration	Lessee & Operating Rights	Surface Owner
1	T9S-R16 SLM Section 23: E2, NW, E2SW,NWSW Section 24: N2, SW, N2SE, SWSE	USA UTU - 15855 HBP	Newfield Production Company Newfield RMI LLC BeeHive Oil LLC Journey Properties LLC King Oil & Gas of Texas LTD Six Gold Oil LLC Stone Energy Corp	USA
2	T9S-R16E SLM Section 25: N2, NESW, SE Section 26: NWNE, SENE, SWSW	USA UTU - 64380 HBP	Newfield Production Company Newfield RMI LLC Yates Petroleum Corp	USA
3	T9S-R16E SLM Section 21: S2 Section 22: NENE, S2 Section 23: SWSW Section 24: SESE Section 26: NENE Section 27: All Section 28: All	USA UTU - 74392 HBP	Newfield Production Company Newfield RMI LLC ABO Petroleum Corp MYCO Industries Inc OXY Y-1 Company Yates Petroleum Corp	USA
4	T9S-R16E SLM Section 25: W2SW, SESW Section 26: SWNE, NW, N2SW, SESW, SE	USA UTU -67844 HBP	Gasco Production Co III Exploration Co III Exploration II LP QEP Energy Company	USA

ATTACHMENT C

CERTIFICATION FOR SURFACE OWNER NOTIFICATION

RE: Application for Approval of Class II Injection Well  
Federal #15-23-9-16

I hereby certify that a copy of the injection application has been provided to all surface owners within a one-half mile radius of the proposed injection well.

Signed: \_\_\_\_\_

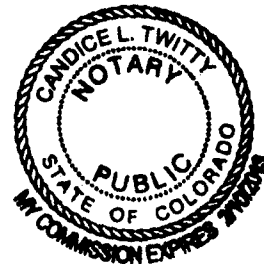
*Eric Sundberg*  
Newfield Production Company  
Eric Sundberg  
Regulatory Lead

Sworn to and subscribed before me this 30<sup>th</sup> day of April, 2012.

Notary Public in and for the State of Colorado: \_\_\_\_\_

*Candice L. Twitty*

My Commission Expires: 02/10/2013



# FEDERAL 15-23-9-16

Attachment E

Spud Date: 11/26/07

Put on Production: 3/14/08

GL: 5784' KB: 5796'

## Wellbore Diagram

Initial Production: BOPD,  
MCFD, BWPD

### SURFACE CASING

CSG SIZE: 8-5/8"

GRADE: J-55

WEIGHT: 24#

LENGTH: 7 jts (310.15')

DEPTH LANDED: 322.00' KB

HOLE SIZE: 12-1/4"

CEMENT DATA: 1- 160, sxs Class "G" cmt, est 5 bbls cmt to surf

### PRODUCTION CASING

CSG SIZE: 5-1/2"

GRADE: J-55

WEIGHT: 15.5#

LENGTH: 136 jts (5779.63') Includes Shoe Jt (43.42')

DEPTH LANDED: 5792.88' KB

HOLE SIZE: 7-7/8"

CEMENT DATA: 300 sxs Prem Lite II mixed & 400 sxs 50/50 POZ

CEMENT TOP: 156'

### TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#

NO. OF JOINTS: 158 jts (4964.4')

TUBING ANCHOR: 4976.4' KB

NO. OF JOINTS: 1 jts (31.4')

SEATING NIPPLE: 2-7/8" (1.10')

SN LANDED AT: 5010.6' KB

NO. OF JOINTS: 2 jts (62.7')

TOTAL STRING LENGTH: EOT @ 5075' KB

### SUCKER RODS

POLISHED ROD: 1-1/2" x 26' SM polished rods

SUCKER RODS: 1 - 3/4" = 2' pony rods; 194 - 3/4" = 4850' guided rods; 6 - 1 1/2" = 150' weight rods.

PUMP SIZE: CDI 2-1/2" x 1-1/2" x 14x 18' RHAC

STROKE LENGTH: 102"

PUMP SPEED: 5 SPM:

### FRAC JOB

01/07/08 5345-5368'

**Frac CP2 sands as follows:**

73000# 20/40 sand in 603 bbls Lightning 17 frac fluid. Treated @ avg press of 1939 psi w/avg rate of 23.2 BPM. ISIP 2177 psi.

03/11/08 5006-5014'

**Frac LODC sands as follows:**

40149# 20/40 sand in 417 bbl Lightning 17 frac fluid. Treated @ avg press of 2660 psi w/avg rate of 26.2 BPM. ISIP 3080 psi.

03/11/08 4597-4606'

**Frac C sands as follows:**

15394# 20/40 sand in 262 bbls Lightning 17 frac fluid. Treated @ avg press of 2078 psi w/avg rate of 23.3 BPM. ISIP 2078 psi.

03/11/08 3956-3969'

**Frac GB6 sands as follows:**

79237# 20/40 sand in 602 bbls Lightning 17 frac fluid. Treated @ avg press of 1468 psi w/avg rate of 26.2 BPM. ISIP 1460 psi.

03/11/08 3867-3906'

**Frac GB4 & GB2 sands as follows:**

25572# 20/40 sand in 325 bbls Lightning 17 frac fluid. Treated @ avg press of 1710 psi w/avg rate of 25.9 BPM. ISIP 1585 psi.

12/30/08

Parted rods Updated r & t details.

02/03/11

Tubing Leak Updated R & T details

### PERFORATION RECORD

5345-5368' 4 JSPF 92 holes

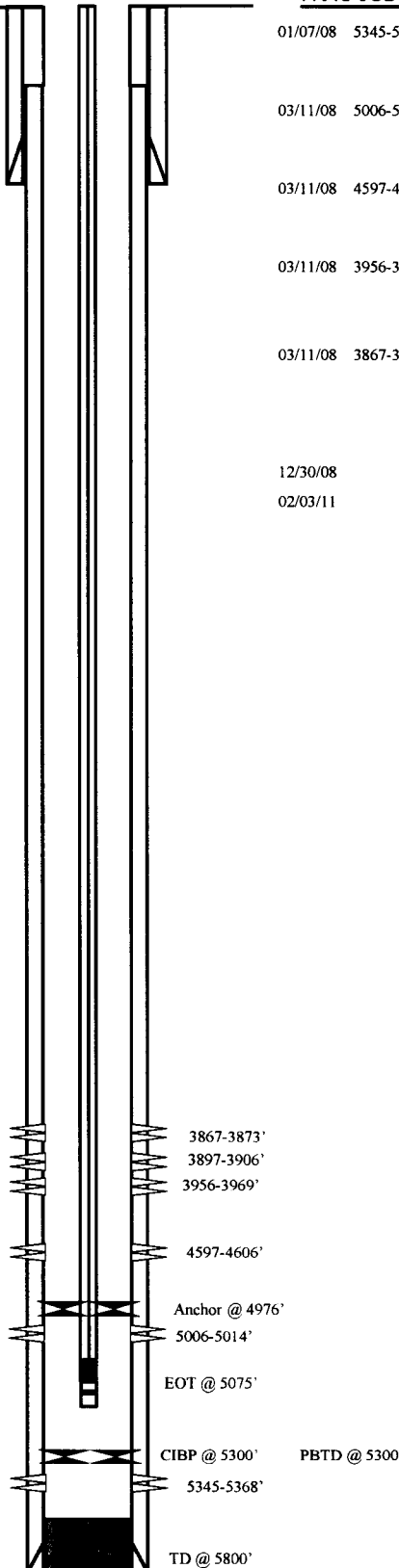
5006-5014' 4 JSPF 32 holes

4597-4606' 4 JSPF 36 holes

3956-3969' 4 JSPF 52 holes

3897-3906' 4 JSPF 36 holes

3867-3873' 4 JSPF 24 holes



**NEWFIELD**

**Federal 15-23-9-16**

603' FSL & 2162' FEL (SW/SE)

Section 23, T9S, R16E

Duchesne County, Utah

API #43-013-33182; Lease # UTU-15855

VC 3/24/11

Updated by CS 7/30/2012

## FEDERAL 11-23-9-16

Spud Date: 1-15-08

Put on Production: 3-7-08

GL: 5726' KB: 5738'

Initial Production:

## Wellbore Diagram

SURFACE CASING

CSG SIZE: 8-5/8"

GRADE: J-55

WEIGHT: 24#

LENGTH: 7 jts (309.09')

DEPTH LANDED: 320.94' KB

HOLE SIZE: 12-1/4"

CEMENT DATA: 160 sxs Class "G" cmt, est 3 bbls cmt to surf.

Cement Top @ 26'

Casing Shoe @ 321'

FRAC JOB

03-04-08 4565-4586'

**Frac C sands as follows:**

90836# 20/40 sand in 686 bbls Lightning 17  
 frac fluid Treated @ avg press of 2017 psi  
 w/avg rate of 23.1 BPM. ISIP 2180 psi Calc  
 flush: 4563 gal Actual flush 4477 gal.

PRODUCTION CASING

CSG SIZE: 5-1/2"

GRADE: J-55

WEIGHT: 15.5#

LENGTH: 134 jts (5775.25')

DEPTH LANDED: 5768.37' KB

HOLE SIZE: 7-7/8"

CEMENT DATA: 300 sxs Prem. Lite II mixed &amp; 400 sxs 50/50 POZ.

CEMENT TOP AT: 26'

TUBING

SIZE/GRADE/WT: 2-7/8" / J-55 / 6.5#

NO. OF JOINTS: 144 jts (4523.49')

TUBING ANCHOR: 4535.49' KB

NO. OF JOINTS: 2 jts (62.78')

SEATING NIPPLE: 2-7/8" (1.10')

SN LANDED AT: 4601.07' KB

NO. OF JOINTS: 2 jts (62.92')

TOTAL STRING LENGTH: EOT @ 4665.54' KB

SUCKER RODS

POLISHED ROD: 1-1/2" x 26' SM

SUCKER RODS: 1-2', 1-6' X 3/4" pony rods, 101- 3/4" scraped rods, 56- 3/4"  
 slick rods, 20- 3/4" guided rods, 6- 1 1/2" weight bars

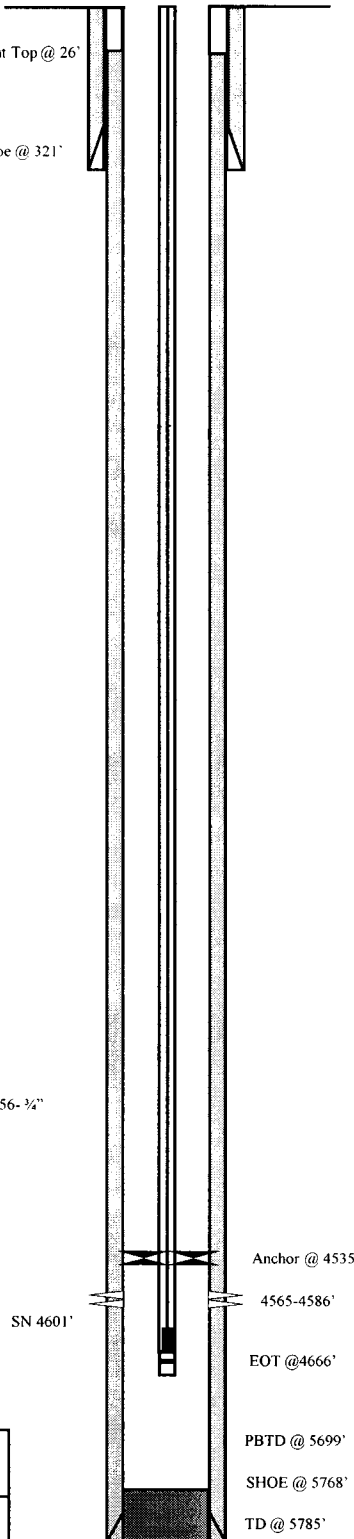
PUMP SIZE: 2-1/2" x 1-1/2" x 12 x 16' RHAC w/SM plunger

STROKE LENGTH: 86"

PUMP SPEED, SPM: 5 SPM

PERFORATION RECORD

02-29-08 4565-4586' 4 JSPF 84 holes



FEDERAL 11-23-9-16

2236' FSL &amp; 1922' FWL

NE/SW Section 23-T9S-R16E

Duchesne Co, Utah

API #43-013-33178; Lease # UTU-15855

TK 4-15-08

Federal 13-23-9-16

Attachment E-2

Spud Date: 10/5/07  
Put on Production: 6/5/08  
GL 5751' KB 5763'

Initial Production: BOPD,  
MCFD, BWPD

Wellbore Diagram

**SURFACE CASING**

CSG SIZE 8-5/8"  
GRADE J-55  
WEIGHT 24#  
LENGTH 7 jts (312 36')  
DEPTH LANDED: 322.58' KB  
HOLE SIZE 12-1/4"  
CEMENT DATA 1- 160, sxs Class "G" cmt, est 4 bbls cmt to surf

**PRODUCTION CASING**

CSG SIZE 5-1/2"  
GRADE J-55  
WEIGHT 15.5#  
LENGTH 150 jts (5705 08')  
DEPTH LANDED 5718 33' KB  
HOLE SIZE 7-7/8"  
CEMENT DATA 300 sxs Prem Lite II mixed & 400 sxs 50/50 POZ

**TUBING**

SIZE/GRADE/WT : 2-7/8" / J-55 / 6.5#  
NO OF JOINTS 173 jts (5443 5')  
TUBING ANCHOR 5443 5' KB  
NO OF JOINTS 1 jts (31 4')  
SEATING NIPPLE 2-7/8" (1.10')  
SN LANDED AT 5477 7' KB  
NO OF JOINTS 2 jts (63.0')  
TOTAL STRING LENGTH EOT @ 5542' KB

**SUCKER RODS**

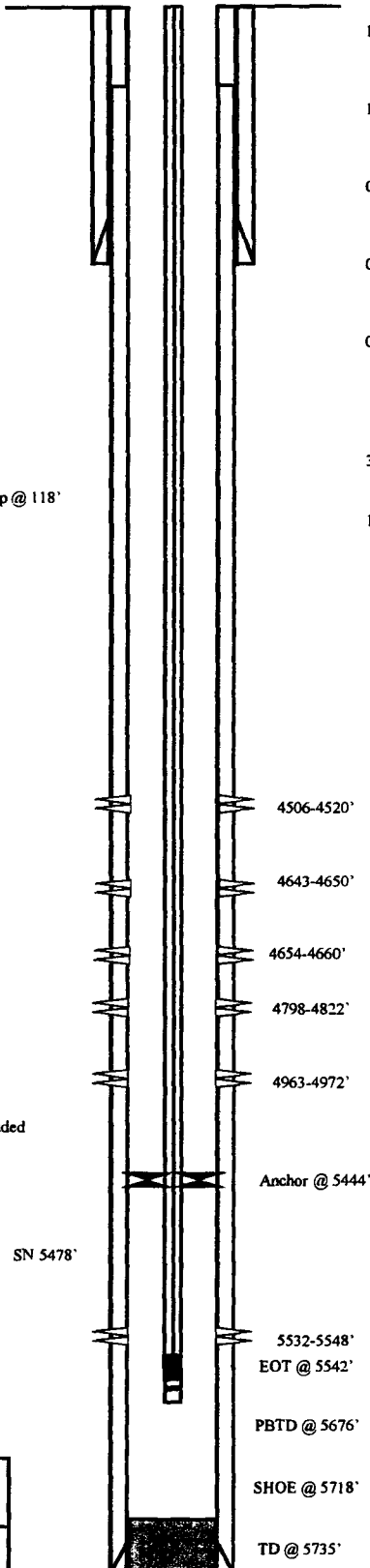
POLISHED ROD 1-1/2" x 26' SM polished rods  
SUCKER RODS 1-3' x 1/4" pony rod, 1-8' x 1/4" pony rod, 100- 3/4" guided rods, 52- 3/4" guided rods, 60- 3/4" guided rods, 6- 1 1/2" weight bars  
PUMP SIZE CDI 2-1/2" x 1-1/2" x 14' x 16' RHAC  
STROKE LENGTH 74"  
PUMP SPEED, SPM: 5

**FRAC JOB**

10/26/07 5532-5548' **Frac CP5 sands as follows:**  
89901# 20/40 sand in 710 bbls Lightning 17  
frac fluid. Treated @ avg press of 1990 psi  
w/avg rate of 24.8 BPM ISIP 2180 psi  
10/26/07 4963-4972' **Frac LODC sands as follows:**  
56448# 20/40 sand in 493 bbl Lightning 17  
frac fluid. Treated @ avg press of 2830 psi  
w/avg rate of 24.8 BPM ISIP 3045 psi  
06/03/08 4798-4822' **Frac A1 sands as follows:**  
159955# 20/40 sand in 1112 bbls Lightning  
17 frac fluid. Treated @ avg press of 1807 psi  
w/avg rate of 26.6 BPM ISIP 1971 psi  
06/03/08 4643-4600' **Frac B2 sands as follows:**  
99834# 20/40 sand in 748 bbls Lightning 17  
frac fluid. Treated @ avg press of 1930 psi  
w/avg rate of 25.5 BPM ISIP 2135 psi  
06/03/08 4874-4888' **Frac C sands as follows:**  
79546# 20/40 sand in 617 bbls Lightning 17  
frac fluid. Treated @ avg press of 2034 psi  
w/avg rate of 26.3 BPM ISIP 1907 psi  
3/16/10 Pump change Updated rod and tubing detail  
1/8/2011 Pump Change Update rod and tubing details

**PERFORATION RECORD**

5532-5548' 4 JSPF 64 holes  
4963-4972' 4 JSPF 36 holes  
4798-4822' 4 JSPF 96 holes  
4654-4660' 4 JSPF 24 holes  
4643-4650' 4 JSPF 28 holes  
4506-4520' 4 JSPF 56 holes



**NEWFIELD**

**Federal 13-23-9-16**

612' FSL & 466' FWL

SW/SW Section 23-T9S-R16E

Duchesne Co, Utah

API #43-013-33180; Lease # UTU-74392

CB 3/15/2011

## Federal 14-23-9-16

Spud Date: 11-28-07  
 Put on Production: 3-3-08  
 GL: 5782' KB: 5794'

## Wellbore Diagram

SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts. (309.03')  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 160 sxs Class "G" cmt

PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 133 jts (5730.05')  
 HOLE SIZE: 7-7/8"  
 DEPTH LANDED: 5743.3'  
 CEMENT DATA: 325 sk Prem. Lite II mixed & 400 sxs 50/50 POZ.  
 CEMENT TOP AT: 60'

TUBING

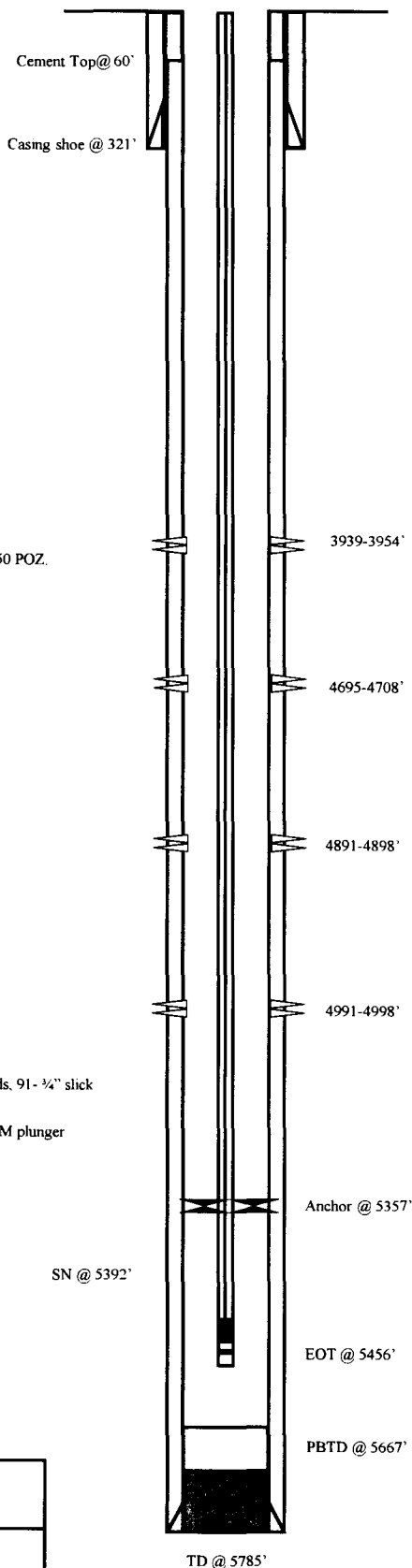
SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 169 jts (5345.45')  
 TUBING ANCHOR: 5357.45'  
 NO. OF JOINTS: 1 jts (31.40')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 5391.65' KB  
 NO. OF JOINTS: 2 jts (63.14')  
 TOTAL STRING LENGTH: EOT @ 5456.34' w/12' KB

SUCKER RODS

POLISHED ROD: 1-1/2" x 26'  
 SUCKER RODS: 1-4', 6', 8' pony subs, 98- 3/4" scraped rods, 91- 3/4" slick rods, 20- 3/4" guided rods, 6- 1 1/2" weight rods  
 PUMP SIZE: 2-1/2" x 1-1/2" X 10' X 14' RHAC pump w/ SM plunger  
 STROKE LENGTH: 86"  
 PUMP SPEED, SPM: 5

FRAC JOB

2-26-08	4991-4998'	<b>Frac A3 sands as follows:</b> Frac with 15465 #'s of 20/40 sand in 275 bbls Lightning 17 fluid. Treat w/ an ave pressure 2863 psi @ 23.2 BPM. ISIP 2882 psi
2-26-08	4891-4898'	<b>Frac A1 sands as follows:</b> Frac with 15196 #'s of 20/40 sand in 282 bbls Lightning 17 fluid. Treat w/ an ave pressure 2226 psi @ 23.2 BPM. ISIP 2125 psi.
2-26-08	4695-4708'	<b>Frac B2 sands as follows:</b> Frac with 30350 #'s of 20/40 sand in 381 bbls Lightning 17 fluid. Treat w/ an ave pressure of 2054 psi @ 23.2 BPM. ISIP 2054 psi.
2-26-08	3939-3954'	<b>Frac GB6 sand as follows:</b> Frac with 93199 #'s of 20/40 sand in 674 bbls Lightning 17 fluid. Treat w/ an ave pressure of 1568 psi @ 23.2 BPM. ISIP 1641 psi.

PERFORATION RECORD

3939-3954'	4 JSPF	60 holes
4695-4708'	4 JSPF	52 holes
4891-4898'	4 JSPF	28 holes
4991-4998'	4 JSPF	28 holes

NEWFIELD

Federal 14-23-9-16  
 658' FSL & 2145' FWL  
 SESW Section 23-T9S-R16E  
 Duchesne Co, Utah  
 API #43-013-33181; Lease #UTU-15855

Spud Date: 11-13-07  
Put on Production: 2-06-08  
GL: 5699' KB: 5711'

## Wellbore Diagram

SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 jts (312.75')  
DEPTH LANDED: 324.6  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 160 sxs Class "G" cmt

PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 132 jts (5686.17')  
HOLE SIZE: 7-7/8"  
DEPTH LANDED: 5699.42'  
CEMENT DATA: 300 sk Prem Lite II mixed & 400 sxs 50/50 POZ.  
CEMENT TOP AT: 132'

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55  
NO. OF JOINTS: 148 jts (4643.0')  
TUBING ANCHOR: 4643.0'  
NO. OF JOINTS: 1 jts (31.4')  
SEATING NIPPLE: 2-7/8" (1.10')  
SN LANDED AT: 4677.2' KB  
NO. OF JOINTS: 2 jts (62.8')  
TOTAL STRING LENGTH: EOT @ 4741' w/12' KB

SUCKER RODS

POLISHED ROD: 1-1/2" x 26'  
SUCKER RODS: 102- 3/4" guided rods, 54- 3/4" guided rods rods, 20- 3/4" guided rods, 6- 1 1/2" weight rods  
PUMP SIZE: 2-1/2" x 1-1/2" x 16" x 20" RHAC pump w/ SM plunger  
STROKE LENGTH: 86"  
PUMP SPEED, SPM: 4

FRAC JOB

2/01/08 4665'-4673' **Frac B2 sands as follows:**  
Frac with 14023 # 20/40 sand in 307bbls Lightning 17 fluid. Treat at an ave pressure of 2365 psi @ 23.1 BPM. ISIP 2100 psi.

2/01/08 4582'-4588' **Frac B.5 sands as follows:**  
Frac with 17722 # 20/40 sand in 349 bbls Lightning 17 fluid. Treat at 2413 psi @ 23.3 BPM. ISIP 2271 psi.

2/01/08 4516'-4525' **Frac C sands as follows:**  
Frac with 53502# 20/40 sand in 479bbls Lightning 17 fluid. Treat at an ave pressure 2599psi @ 23.3 BPM. ISIP 2120 psi.

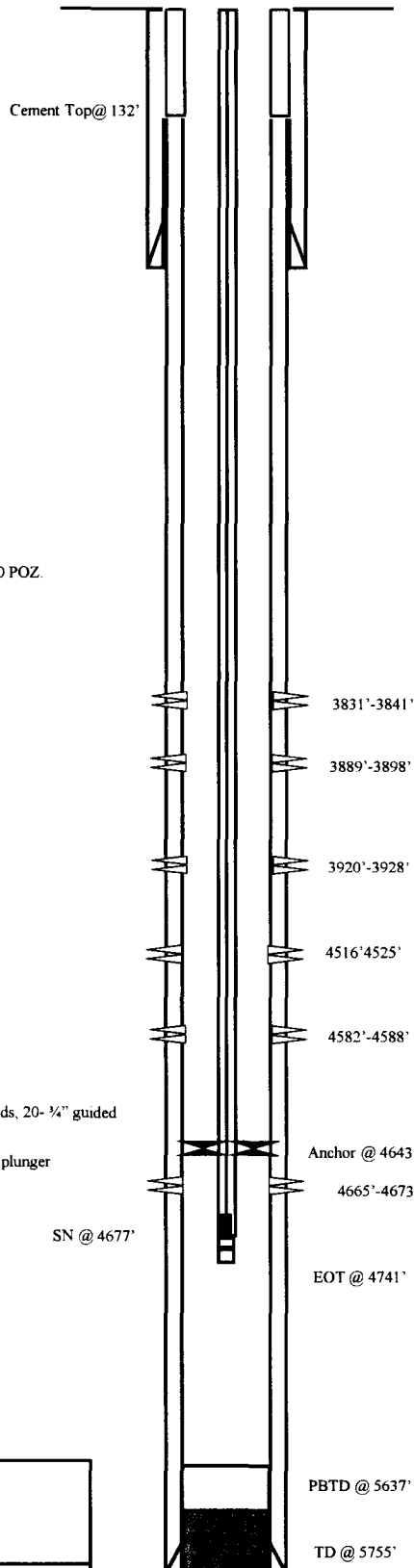
2/01/08 3889'-3928' **Frac GB6 & GB4 sand as follows:**  
Frac with 75504# 20/40 sand in 632 bbls Lightning 17 fluid. Treat at an ave pressure of 1555 psi @ 23.4 BPM. ISIP 1625 psi.

2/01/08 3831'-3841' **Frac GB2 sands as follows:**  
Frac with 24213# 20/40 sand in 248 bbls Lightning 17 fluid. Treat at an ave pressure of 1840 psi @ 23.2 BPM. ISIP 1760 psi.

8-12-08 Pump Change Updated rod & tubing details

10/8/09 Pump Change Updated rod & tubing details

11/23/2010 Pump change. Updated rod and tubing detail

PERFORATION RECORD

3831'-3841'	4 JSPF	40 holes
3889'-3898'	4 JSPF	36 holes
3920'-3928'	4 JSPF	32 holes
4516'-4525'	4 JSPF	36 holes
4582'-4588'	4 JSPF	24 holes
4665'-4673'	4 JSPF	32 holes

**NEWFIELD**

**Federal 16-23-9-16**  
693' FSL & 857' FEL  
SESE Section 23-T9S-R16E  
Duchesne Co, Utah  
API #43-013-33183; Lease #UTU-15855

## FEDERAL 13-24-9-16

Spud Date: 11/6/07  
Put on Production: 2/5/08  
GL: 5656' KB: 5668'

Wellbore Diagram

### SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 jts (302.73')  
DEPTH LANDED: 314.58'  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 160 sxs Class "G" cmt

### PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 132 jts (5661.02')  
HOLE SIZE: 7-7/8"  
DEPTH LANDED: 5674.27'  
CEMENT DATA: 300 sk Prem. Lite II mixed & 400 sxs 50/50 POZ  
CEMENT TOP AT: 92'

### TUBING

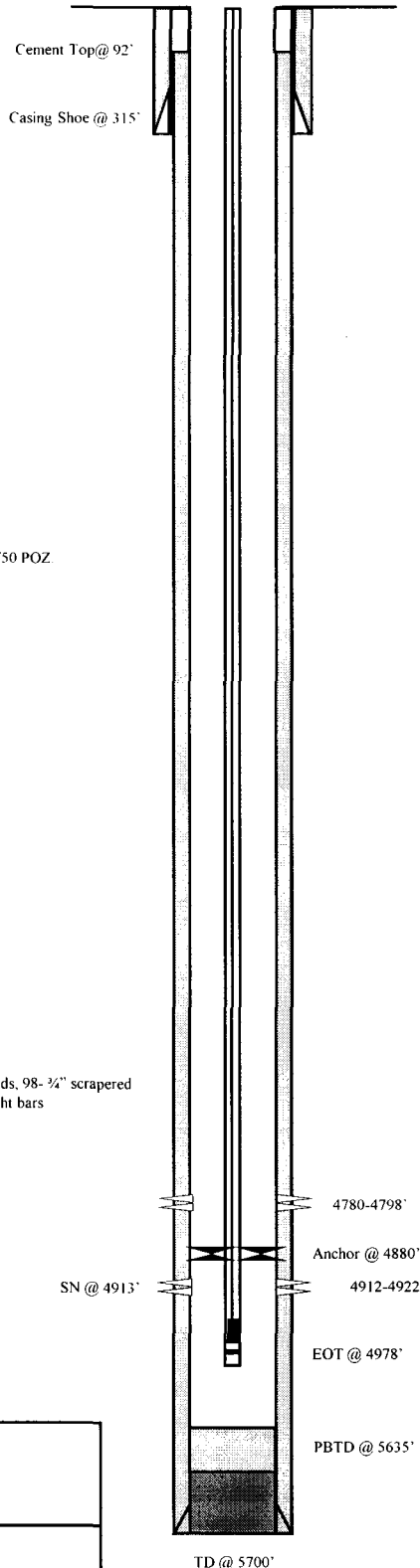
SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
NO. OF JOINTS: 154 jts (4867.6')  
TUBING ANCHOR: 4879.6'  
NO. OF JOINTS: 1 jts (30.3')  
SEATING NIPPLE: 2-7/8" (1.10')  
SN LANDED AT: 4912.7' KB  
NO. OF JOINTS: 2 jts (63.9')  
TOTAL STRING LENGTH: EOT @ 4978'

### SUCKER RODS

POLISHED ROD: 1-1/2" x 22' polished rod  
SUCKER RODS: 1- 2' x 3/4" pony rods, 2- 16' x 3/4" pony rods, 98- 3/4" scraped rods, 50- 3/4" plain rods, 41- 3/4" scraped rods, 6- 1 1/2" weight bars  
PUMP SIZE: 2-1/2" x 1-1/2" x 16' X 20' RHAC  
LENGTH: 102"  
PUMP SPEED, SPM: 5

### FRAC JOB

1/30/08	4912-4922'	<b>Frac LODC sands as follows</b> Frac with 19518# 20/40 sand in 315bbls Lightning 17 fluid. Treat at 3001psi @ 23.2 BPM. ISIP 3269 psi.
1/30/08	4780-4798'	<b>Frac A1 sands as follows:</b> Frac with 102122# 20/40 sand in 772bbls Lightning 17 fluid. Treat at 2124 psi @ 23.3 BPM. ISIP 3269psi.
8/12/09		Pump Change. Updated rod & tubing details
2/6/10		Tubing leak. Updated rod and tubing detail



### PERFORATION RECORD

4780-4798'	4 JSPF	72 holes
4912-4922'	4 JSPF	40 holes

**NEWFIELD**

**Federal 13-24-9-16**

684' FSL & 423' FWL

SWSW Section 24-T9S-R16E

Duchesne Co, Utah

API #43-013-33342; Lease #UTU-15855

## Castle Peak Federal #9-23

Wellbore Diagram

Well History:

3-15-83 Spud Well  
 4-2-83 Perf: 4,808'-4,821'  
 4-5-83 Frac A-1 zone as follows:  
 Totals 26,500 gal. 88,000# 20/40 sd  
 Max TP 2,830 @ 30 BPM  
 Avg TP 2,500 @ 30 BPM  
 ISIP 2,080, after 5 min 1,990  
 GL: 5,663'

SURFACE CASING

CSG SIZE: 8-5/8"  
 WEIGHT: 24#  
 LENGTH: (271.06')  
 DEPTH LANDED: 270' GL  
 HOLE SIZE: 13"  
 CEMENT DATA: 210 sxs Class "G" with 2% CaCl and 1/4# per sc  
 celloflake.

PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 17#  
 LENGTH: 133 jts.  
 DEPTH LANDED: 5405'  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 200 sxs Hifill 275 sxs Thixotropic  
 CEMENT TOP AT: 3314'

TUBING

SIZE/GRADE/WT.: 2-7/8" / 6.5# / J-55  
 NO. OF JOINTS: 151 jts. (4778.19')  
 TUBING ANCHOR: 4802.19'  
 NO. OF JOINTS: 1 jts. (31.63')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 4836.62'  
 NO. OF JOINTS: 1 jts. (31.62')  
 TOTAL STRING LENGTH: EOT @ 4869.59'

SUCKER RODS

POLISHED ROD: 1-1/2" x 22'  
 SUCKER RODS: 1-2' x 3/4" pony rods, 101- 3/4" guided rods, 60- 3/4" slick rods, 27- 3/4" guided rods, 4- 1 1/2" weight bars.  
 PUMP SIZE: RIH w/ 2-1/2" x 1-1/4" x 16' RHAC CDI pump

Cement Top @ 3314'

Casing Shoe @ 270'

Tubing Anchor @ 4802'  
 Perf's: 4,808'-21'(A-1)

SN @ 4,837'

EOT @ 4870'

PBSD @ 5,362'

TD @ 5,413'



Castle Peak Federal #9-23

2080 FSL 659 FEL

NESE Section 23-T9S-R16E

Duchesne Co, Utah

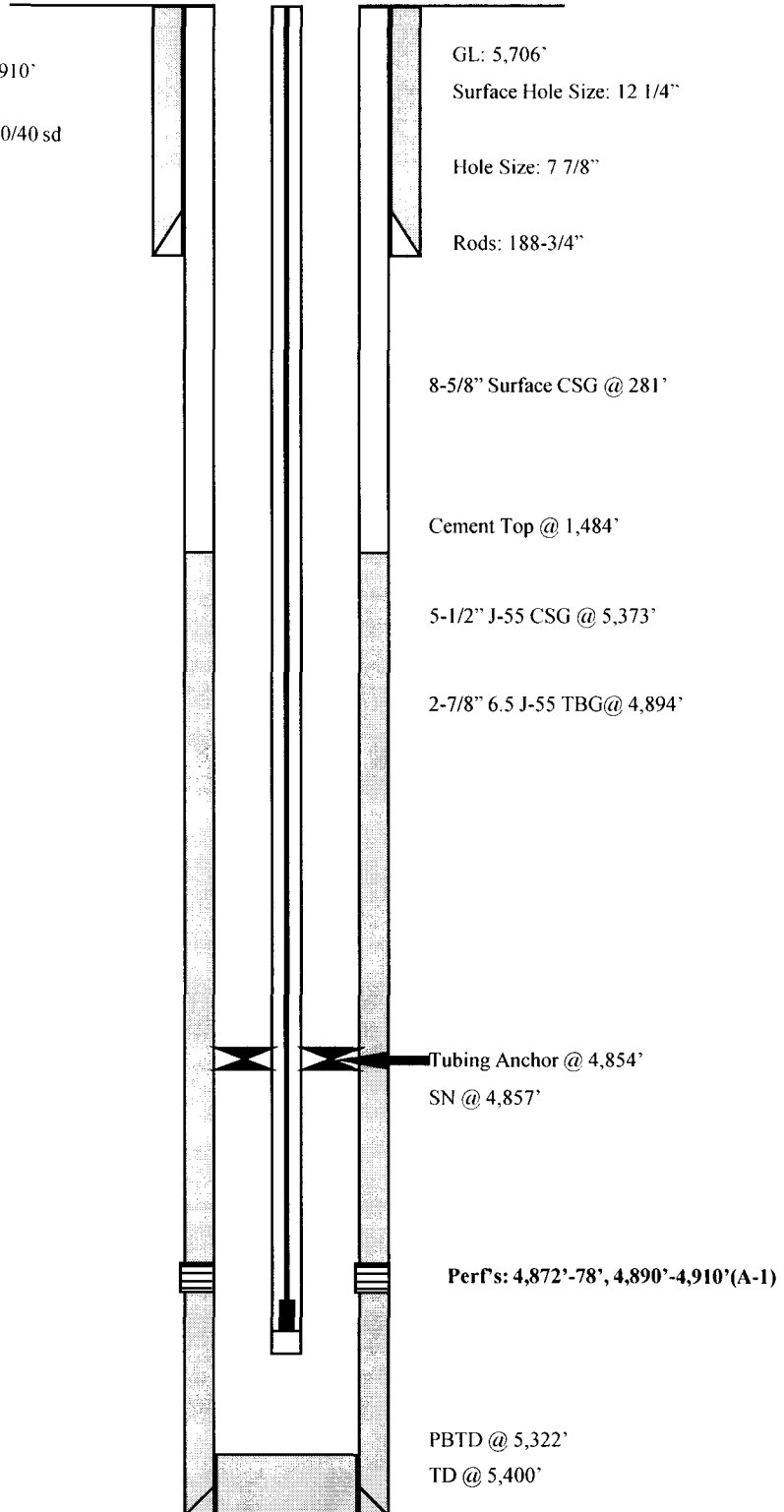
API #43-013-30654; Lease #UTU-15855

## Castle Peak Federal #7-23

Wellbore Diagram

Well History:

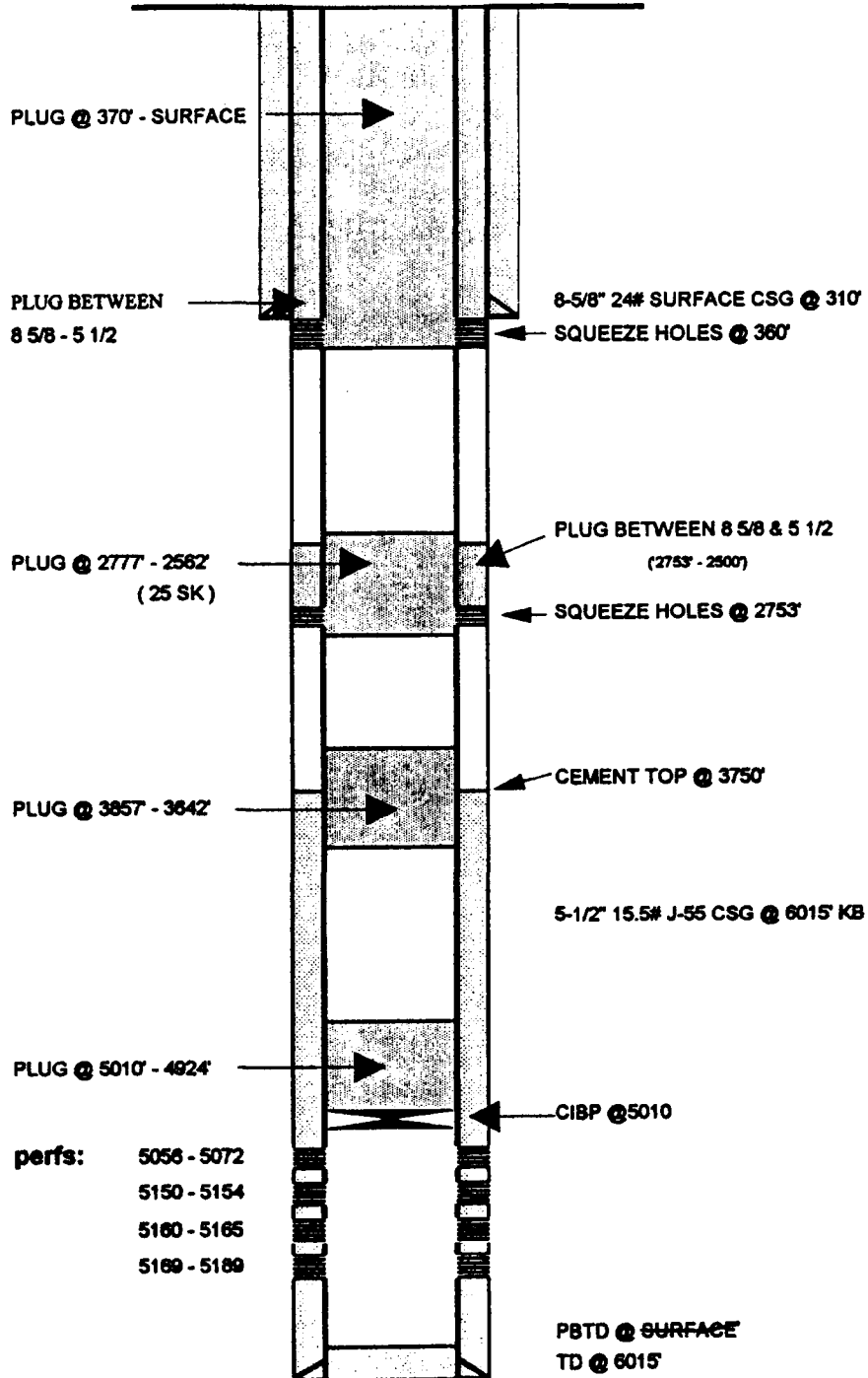
7-26-83 Spud Well  
 8-11-83 Perf: 4,872'-4,878', 4,890'-4,910'  
 Frac A-3 zone as follows:  
 Totals 38,000 gal, 130,800# 20/40 sd  
 Max TP 2,600 @ 31 BPM  
 Avg TP 2,000 @ 31 BPM  
 ISIP 2,000, after 5 min 1,450



Castle Peak Federal #7-23  
 1967 FNL 1985 FEL  
 SWNE Section 23-T9S-R16E  
 Duchesne Co, Utah  
 API #43-013-30662; Lease #U-15855

**CASTLE PEAK #1-26**  
**NE/NE SECTION 26, T9S, R16E**  
**DUCHESNE COUNTY, UTAH**

API # 43-013-30636



API # 43-013-31477

Well Name: UTD Walton 26-03  
Location: NENW Sec. 26, T9S, R16E  
Field: Monument Butte  
Spud Date: 12/31/95  
Completed: 7/30/97

Date: 7/30/97  
County: Duchesne  
State: Utah  
KB: 5836' (11')  
GL: 5825'

Surface Casing —————>  
8-5/8" 24# set @ 303'  
Cemented w/165 sks Class G

Production Casing —————>  
5-1/2" 15.5# & 17# set @ 5950'

Tubing: New completion —————>  
Note: Tubing tested to 500#  
2-7/8" 6.5# EUE 8rd J-55 (177 jts)  
"T" Anchor @ 5570' w/15,000# tension  
8 jts. 2-7/8" 6.5# tubing  
SN @ 5824'  
1 jt. 2-7/8" 6.5# tubing  
NC (tubing tail) @ 5856' —————>

Rod & Pump Detail

1 - 2' x 7/8" pony rod  
1 - 4' x 7/8" pony rod  
1 - 8' x 7/8" pony rod  
77 - 7/8" plain rods  
155 - 3/4" plain rods  
Pump - 2-1/2" x 1-1/4" x 16' RHAC

Perfs:  
4860'-4870' & 4856' - 4873' (squeezed)

Perfs:  
5583' - 5597'

5689' - 5845'

PBTD 5914'

TD 5950'

IP: 20 BOD (8/20/97)  
0 BWD  
Est. 20 MCFD

SUBMIT IN **DATE\***  
(Other in-  
structions on  
reverse side)

FORM APPROVED  
OMB NO. 1004-0137

Expires: February 28, 1995

**UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT**

5. LEASE DESIGNATION AND SERIAL NO.

**UTU-67844**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

**N/A**

7. UNIT AGREEMENT NAME

**N/A**

8. FARM OR LEASE NAME, ADDRESS

**UTD Walton 26-03**

9. API WELL NO.

**43-013-31477**

10. FIELD AND POSITION

**Monument Butte**

11. SEC., T., R., M., OR B. OR NEARBY SURVEY

OR AREA

**Sec. 26, T9S, R16E**

12. COUNTY OR PARISH

**Duchesne**

**Utah**

13. FIELD CENSUS

**None**

14. PERMIT NO.

**None**

15. DATE ISSUED

**12/19/94**

16. DATE T.D. REACHED

**01/15/96**

17. DATE COMPL. (Ready to prod.)

**07/30/97**

18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\*

**5825' GR, 5836' KB**

19. TOTAL DEPTH, MD & TVD

**5950' MD, 5950' TVD**

20. PLUG, BACK T.D., MD & TVD

**5914' TD, 5914' MD, 5914' TVD**

21. IF MULTIPLE COMPL., HOW MANY\*

**None**

22. INTERVALS

**Drilled by**

**XX**

23. ROTARY TOOLS

**XX**

24. CABLE TOOLS

**XX**

25. WAS DRILLING SURVEY MADE

**No**

26. WAS WELL COMPLETED

**No**

**WELL COMPLETION OR RECOMPLETION REPORT AND LOG\***

1a. TYPE OF WORK

OIL

GAS

WELL ☒

WELL ☐

DRY ☐

Other

1b. TYPE OF WELL

NEW

WORK

DEEP-

PLUG

DIFF.

WELL ☒

OVER ☐

EN ☐

BACK ☐

RESVR ☐

Other

1c. NAME OF OPERATOR

**Chandler & Associates, Inc.**

1d. ADDRESS AND TELEPHONE NO.

**475 17th Street, Suite 1000, Denver, CO 80202**

**303-295-0400**

1e. LOCATION OF WELL (Report locations clearly and in accordance with any State requirements.)\*

At Surface

**705' FNL, 1899' FWL (NENW)**

At top prod. Interval reported below

**Same**

At total depth

**Same**

1f. DATE SPUED

**12/31/95**

16. DATE T.D. REACHED

**01/15/96**

17. DATE COMPL. (Ready to prod.)

**07/30/97**

18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\*

**5825' GR, 5836' KB**

19. TOTAL DEPTH, MD & TVD

**5950' MD, 5950' TVD**

21. PLUG, BACK T.D., MD & TVD

**5914' TD, 5914' MD, 5914' TVD**

22. IF MULTIPLE COMPL., HOW MANY\*

**None**

23. INTERVALS

**Drilled by**

**XX**

ROTARY TOOLS

**XX**

CABLE TOOLS

**XX**

24. PRODUCING INTERVAL(S), OF THIS COMPLETION--TOP, BOTTOM, NAME (MD AND TVD)\*

**Basal Green River - 5686'**

26. TYPE ELECTRIC AND OTHER LOGS RUN

**DIFF/GR, ZD/CN/GR, CBL/GR/CL**

**MUD LOG.**

23. CASING RECORD (Report all strings set in well)

CASING SIZE/GRADE	WEIGHT, LB/FT.	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD	AMOUNT CEMENT
8-5/8" K-55	24#	303'	12-1/4"	To surface w/165 sks Class G	
5-1/2" J-55	15.5# & 17#	5940'	7-7/8"	220 sks Class G, 280 sks RFC	
				Top of cement @ 2215'	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PAVING SET (MD)
					2-7/8"	5856'	

31. PERFORATION RECORD (Interval, size and number)

**INTERVAL**

**4860' - 4870'**

**4856' - 4873'**

**5583' - 5597'**

**5689' - 5845'**

**SIZE**

**Squeezed off**

**Squeezed off**

**NUMBER**

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)

AMOUNT AND KIND OF MATERIAL USED

33. PRODUCTION

DATE FIRST PRODUCTION

**08/04/97**

PRODUCTION METHOD (Flowing, gas lift, pumping--size and type of pump)

**Pumping**

WELL STATUS (Producing or shut in)

**Producing**

DATE OF TEST

**08/20/97**

HOURS TESTED

**24**

CHOKE SIZE

**20**

PROD'N. FOR TEST PERIOD

**20**

OIL--BBL.

GAS--MCF.

WATER--BBL.

GAS-OIL RATIO

FLOW, TUBING PRESS.

**0**

CASING PRESSURE

**30#**

CALCULATED 24-HOUR RATE

**20**

OIL--BBL.

**20**

GAS--MCF.

**20**

WATER--BBL.

**0**

DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

**Used on lease**

34. LIST OF ATTACHMENTS

**CONFIDENTIAL**

**PERIOD**

35. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

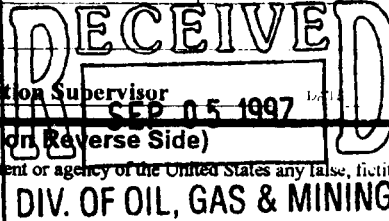
SIGNED

*James A. Simonton*

**ON 8/26/97 FILE Operations/Production Supervisor**

TEST WITNESSED BY

**Jim Simonton**



08/27/97

\*(See Instructions and Spaces for Additional Data on Reverse Side)

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Form 3160-  
(November 1983)  
(Formerly 9-331)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE  
(Other instructions on re-  
verse side)

Form approved.  
Budget Bureau No. 1004-0135  
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. U-15855
2. NAME OF OPERATOR Lomax Exploration Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR P.O. Box 4503 Houston, Texas 77210		7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State or Federal laws. See also space 17 below.) At surface 1847' FEL & 1914' FSL NW/SE		8. FARM OR LEASE NAME Castle Peak Federal
14. PERMIT NO. API# 43-013-30875		9. WELL NO. #10-23
15. ELEVATIONS (Show whether DT, RT, OR, etc.) 5704' GR		10. FIELD AND POOL, OR WILDCAT Undesignated
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 23, T9S, R16E
		12. COUNTY OR PARISH 13. STATE Duchesne Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF	<input type="checkbox"/>	PULL OR ALTER CASING	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>	MULTIPLE COMPLETION	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>	ABANDON*	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	CHANGE PLANE	<input type="checkbox"/>
(Other)	<input type="checkbox"/>		

SUBSEQUENT REPORT OF:

WATER SHUT-OFF	<input type="checkbox"/>	REPAIRING WELL	<input type="checkbox"/>
FRACTURE TREATMENT	<input type="checkbox"/>	ALTERING CASING	<input type="checkbox"/>
SHOOTING OR ACIDIZING	<input type="checkbox"/>	ABANDONMENT*	<input checked="" type="checkbox"/>
(Other)	<input type="checkbox"/>		

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATION: (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

11/30/84: Set Class G + 2% CaCl cement plug @ 4450'-4650' (25 sx)  
3550'-3750' (25 sx)

12/1/84: Set Class G + 2% CaCl cement plug 400' - surface. (50 sx)  
Pumped 65 sx Class G + 2% CaCl cement plug down 8 5/8" x 5 1/2" csg annulus.

12/6/84: Set dry hole marker. Location to be restored.

18. I hereby certify that the foregoing is true and correct

SIGNED J.R. Schaefer TITLE District Manager DATE 12/7/84

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

TITLE \_\_\_\_\_

ACCEPTED  
APPROVED BY THE STATE  
OF UTAH DIVISION OF  
OIL, GAS, AND MINING

DATE: 12/19/84

BY: John R. B...

\*See Instructions on Reverse Side

1983)  
dy 9-331)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE  
(Other instructions  
verse side)

Budget Bureau No. 1004-0135  
Expires August 31, 1985

3

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. <input type="checkbox"/> OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER		5. LEASE DESIGNATION AND SERIAL NO. U-38809	
2. NAME OF OPERATOR Lomax Exploration Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
3. ADDRESS OF OPERATOR 333 North Belt East, Suite 880 Houston, Texas 77060		7. UNIT AGREEMENT NAME	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 2001" FNL & 2010' FEL SW/NE		8. FARM OR LEASE NAME Federal	
14. PERMIT NO. 43-013-30618		9. WELL NO. #7-26	
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 5770' GR		10. FIELD AND POOL, OR WILDCAT Monument Butte	
		11. SEC., T., R., M., OR BLM. AND SURVEY OR AREA Sec. 26, T9S, R16E	
		12. COUNTY OR PARISH Duchesne	13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF	<input type="checkbox"/>	WATER SHUT-OFF	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>	FRACTURE TREATMENT	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>	SHOOTING OR ACIDIZING	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	(Other)	<input type="checkbox"/>
(Other)	<input type="checkbox"/>	(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	<input type="checkbox"/>
PULL OR ALTER CASING	<input type="checkbox"/>	REPAIRING WELL	<input type="checkbox"/>
MULTIPLE COMPLETION	<input type="checkbox"/>	ALTERING CASING	<input type="checkbox"/>
ABANDON*	<input type="checkbox"/>	ABANDONMENT*	<input checked="" type="checkbox"/>
CHANGE PLANS	<input type="checkbox"/>		

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

8-27-84 Set 25 sx Class "G" cement plug F/4425' - 4225'  
Set 25 sx Class "G" cement plug F/2675' - 2475'  
Set 50 sx Class "G" cement plug F/390' - Surface

Surface to be restored

RECEIVED  
NOV 23 1984

DIVISION OF  
OIL, GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED Paul Curry *Paul Curry* TITLE Engineering Assistant DATE September 17, 1984

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

## Water Analysis Report

Production Company: **NEWFIELD PRODUCTION**Sales Rep: **Darren Betts**Well Name: **BELUGA INJECTION**Lab Tech: **Gary Peterson**Sample Point: **After production filter**Sample Date: **12/9/2011**Sample ID: **WA-204146**Scaling potential predicted using ScaleSoftPitzer from  
Brine Chemistry Consortium (Rice University)

Sample Specifics		Analysis @ Properties in Sample Specifics			
Test Date:	12/9/2011	Cations		Anions	
		mg/L		mg/L	
System Temperature 1 (°F):	300.00	Sodium (Na):	13791.93	Chloride (Cl):	20000.00
System Pressure 1 (psig):	3000.00	Potassium (K):	35.40	Sulfate (SO <sub>4</sub> ):	480.00
System Temperature 2 (°F):	70.00	Magnesium (Mg):	13.30	Bicarbonate (HCO <sub>3</sub> ):	1854.40
System Pressure 2 (psig):	14.70	Calcium (Ca):	38.50	Carbonate (CO <sub>3</sub> ):	0.00
Calculated Density (g/ml):	1.02	Strontium (Sr):	0.00	Acetic Acid (CH <sub>3</sub> COO)	0.00
pH:	8.60	Barium (Ba):	6.73	Propionic Acid (C <sub>2</sub> H <sub>5</sub> COO)	0.00
Calculated TDS (mg/L):	36236.98	Iron (Fe):	15.50	Butanoic Acid (C <sub>3</sub> H <sub>7</sub> COO)	0.00
CO <sub>2</sub> in Gas (%):	0.00	Zinc (Zn):	0.00	Isobutyric Acid ((CH <sub>3</sub> ) <sub>2</sub> CHCOO)	0.00
Dissolved CO <sub>2</sub> (mg/L):	0.00	Lead (Pb):	0.81	Fluoride (F):	0.00
H <sub>2</sub> S in Gas (%):	0.00	Ammonia NH <sub>3</sub> :	0.00	Bromine (Br):	0.00
H <sub>2</sub> S in Water (mg/L):	25.00	Manganese (Mn):	0.41	Silica (SiO <sub>2</sub> ):	0.00

## Notes:

P=15.5 mg/l

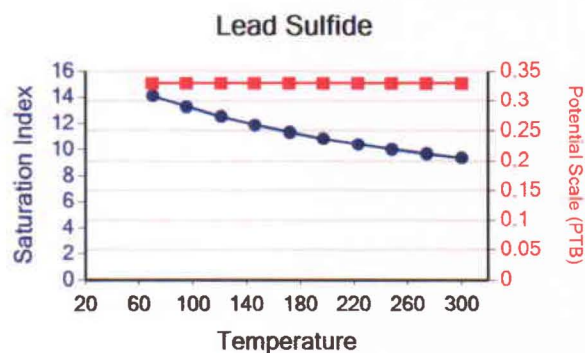
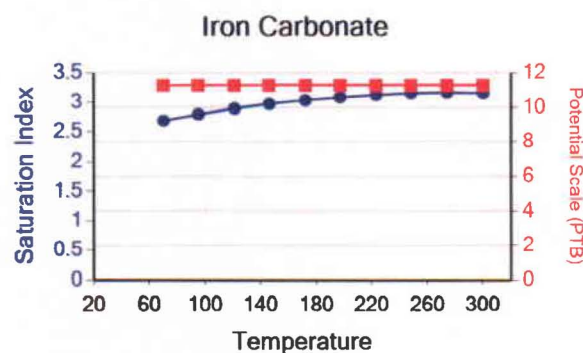
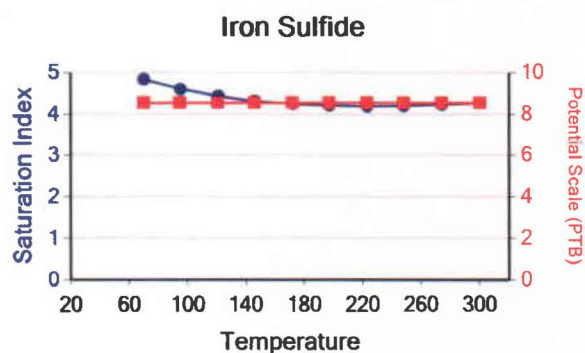
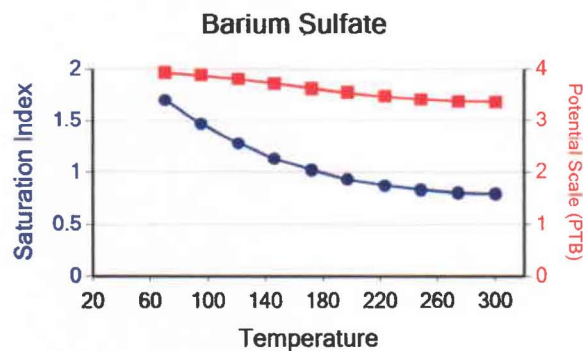
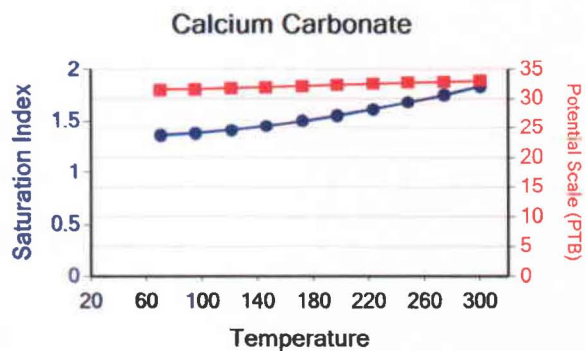
(PTB = Pounds per Thousand Barrels)

		Calcium Carbonate		Barium Sulfate		Iron Sulfide		Iron Carbonate		Gypsum CaSO <sub>4</sub> 2H <sub>2</sub> O		Celestite SrSO <sub>4</sub>		Halite NaCl		Zinc Sulfide	
Temp (°F)	PSI	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
70	14	1.36	31.45	1.70	3.93	4.85	8.55	2.69	11.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	346	1.38	31.56	1.47	3.87	4.61	8.55	2.80	11.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
121	678	1.41	31.71	1.28	3.80	4.44	8.55	2.90	11.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
146	1009	1.45	31.89	1.13	3.71	4.32	8.55	2.98	11.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
172	1341	1.50	32.08	1.02	3.62	4.25	8.55	3.04	11.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
197	1673	1.55	32.28	0.93	3.54	4.21	8.55	3.09	11.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
223	2004	1.61	32.48	0.87	3.46	4.19	8.55	3.13	11.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
248	2336	1.68	32.68	0.83	3.41	4.20	8.55	3.16	11.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
274	2668	1.75	32.85	0.80	3.37	4.23	8.55	3.17	11.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
300	3000	1.83	33.00	0.79	3.35	4.27	8.55	3.16	11.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

		Hemihydrate CaSO <sub>4</sub> ~ 0.5H <sub>2</sub> O		Anhydrate CaSO <sub>4</sub>		Calcium Fluoride		Zinc Carbonate		Lead Sulfide		Mg Silicate		Ca Mg Silicate		Fe Silicate	
Temp (°F)	PSI	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
70	14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.14	0.33	0.00	0.00	0.00	0.00	0.00	0.00
95	346	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.28	0.33	0.00	0.00	0.00	0.00	0.00	0.00
121	678	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.54	0.33	0.00	0.00	0.00	0.00	0.00	0.00
146	1009	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.89	0.33	0.00	0.00	0.00	0.00	0.00	0.00
172	1341	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.34	0.33	0.00	0.00	0.00	0.00	0.00	0.00
197	1673	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.85	0.33	0.00	0.00	0.00	0.00	0.00	0.00
223	2004	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.42	0.33	0.00	0.00	0.00	0.00	0.00	0.00
248	2336	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.04	0.33	0.00	0.00	0.00	0.00	0.00	0.00
274	2668	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.70	0.33	0.00	0.00	0.00	0.00	0.00	0.00
300	3000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.39	0.33	0.00	0.00	0.00	0.00	0.00	0.00

These scales have positive scaling potential under initial temperature and pressure: Calcium Carbonate Barium Sulfate Iron Sulfide Iron Carbonate Lead Sulfide

These scales have positive scaling potential under final temperature and pressure: Calcium Carbonate Barium Sulfate Iron Sulfide Iron Carbonate Lead Sulfide



## Water Analysis Report

Production Company: **NEWFIELD PRODUCTION**Sales Rep: **Darren Betts**Well Name: **FEDERAL 15-23-9-16**Lab Tech: **Gary Peterson**Sample Point: **Treater**Sample Date: **3/20/2012**Sample ID: **WA-210162**Scaling potential predicted using ScaleSoftPitzer from  
Brine Chemistry Consortium (Rice University)

Sample Specifics		Analysis @ Properties in Sample Specifics			
Test Date:	3/29/2012	Cations		Anions	
		mg/L		mg/L	
System Temperature 1 (°F):	300.00	Sodium (Na):	14072.48	Chloride (Cl):	21000.00
System Pressure 1 (psig):	3000.00	Potassium (K):	35.70	Sulfate (SO4):	295.00
System Temperature 2 (°F):	70.00	Magnesium (Mg):	14.60	Bicarbonate (HCO3):	1220.00
System Pressure 2 (psig):	14.70	Calcium (Ca):	31.50	Carbonate (CO3):	0.00
Calculated Density (g/ml):	1.02	Strontium (Sr):	0.00	Acetic Acid (CH3COO):	0.00
pH:	9.00	Barium (Ba):	1.50	Propionic Acid (C2H5COO):	0.00
Calculated TDS (mg/L):	36744.68	Iron (Fe):	72.00	Butanoic Acid (C3H7COO):	0.00
CO2 in Gas (%):	0.00	Zinc (Zn):	0.30	Isobutyric Acid ((CH3)2CHCOO):	0.00
Dissolved CO2 (mg/L):	0.00	Lead (Pb):	0.10	Fluoride (F):	0.00
H2S in Gas (%):	0.00	Ammonia NH3:	0.00	Bromine (Br):	0.00
H2S in Water (mg/L):	90.00	Manganese (Mn):	1.50	Silica (SiO2):	0.00

## Notes:

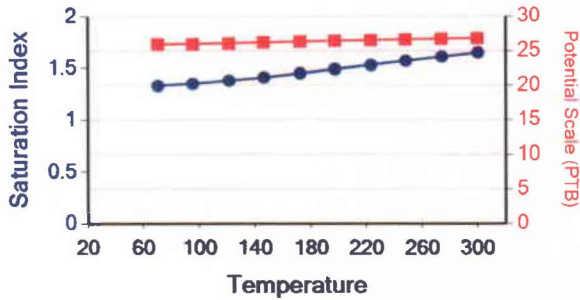
(PTB = Pounds per Thousand Barrels)

		Calcium Carbonate		Barium Sulfate		Iron Sulfide		Iron Carbonate		Gypsum CaSO4·2H2O		Celestite SrSO4		Halite NaCl		Zinc Sulfide	
Temp (°F)	PSI	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
70	14	1.33	25.88	0.84	0.76	6.42	39.73	3.37	52.32	0.00	0.00	0.00	0.00	0.00	0.00	12.27	0.16
95	346	1.35	25.96	0.60	0.67	6.18	39.73	3.47	52.33	0.00	0.00	0.00	0.00	0.00	0.00	11.72	0.16
121	678	1.38	26.05	0.42	0.55	6.00	39.73	3.57	52.33	0.00	0.00	0.00	0.00	0.00	0.00	11.25	0.16
146	1009	1.41	26.15	0.27	0.41	5.87	39.73	3.64	52.34	0.00	0.00	0.00	0.00	0.00	0.00	10.85	0.16
172	1341	1.45	26.27	0.15	0.26	5.78	39.73	3.69	52.34	0.00	0.00	0.00	0.00	0.00	0.00	10.49	0.16
197	1673	1.49	26.38	0.07	0.13	5.72	39.73	3.73	52.34	0.00	0.00	0.00	0.00	0.00	0.00	10.18	0.16
223	2004	1.53	26.49	0.00	0.01	5.69	39.73	3.75	52.34	0.00	0.00	0.00	0.00	0.00	0.00	9.89	0.16
248	2336	1.57	26.60	0.00	0.00	5.66	39.73	3.75	52.34	0.00	0.00	0.00	0.00	0.00	0.00	9.63	0.16
274	2668	1.61	26.69	0.00	0.00	5.65	39.73	3.73	52.34	0.00	0.00	0.00	0.00	0.00	0.00	9.39	0.16
300	3000	1.65	26.77	0.00	0.00	5.65	39.73	3.69	52.34	0.00	0.00	0.00	0.00	0.00	0.00	9.15	0.16

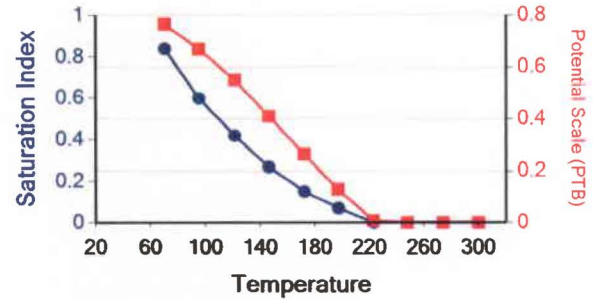
		Hemihydrate CaSO4·0.5H2O		Anhydrate CaSO4		Calcium Fluoride		Zinc Carbonate		Lead Sulfide		Mg Silicate		Ca Mg Silicate		Fe Silicate	
Temp (°F)	PSI	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
70	14	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.06	14.19	0.04	0.00	0.00	0.00	0.00	0.00	0.00
95	346	0.00	0.00	0.00	0.00	0.00	0.00	0.49	0.14	13.33	0.04	0.00	0.00	0.00	0.00	0.00	0.00
121	678	0.00	0.00	0.00	0.00	0.00	0.00	0.78	0.17	12.58	0.04	0.00	0.00	0.00	0.00	0.00	0.00
146	1009	0.00	0.00	0.00	0.00	0.00	0.00	1.01	0.18	11.93	0.04	0.00	0.00	0.00	0.00	0.00	0.00
172	1341	0.00	0.00	0.00	0.00	0.00	0.00	1.20	0.19	11.36	0.04	0.00	0.00	0.00	0.00	0.00	0.00
197	1673	0.00	0.00	0.00	0.00	0.00	0.00	1.35	0.19	10.85	0.04	0.00	0.00	0.00	0.00	0.00	0.00
223	2004	0.00	0.00	0.00	0.00	0.00	0.00	1.46	0.20	10.40	0.04	0.00	0.00	0.00	0.00	0.00	0.00
248	2336	0.00	0.00	0.00	0.00	0.00	0.00	1.52	0.20	9.98	0.04	0.00	0.00	0.00	0.00	0.00	0.00
274	2668	0.00	0.00	0.00	0.00	0.00	0.00	1.55	0.20	9.60	0.04	0.00	0.00	0.00	0.00	0.00	0.00
300	3000	0.00	0.00	0.00	0.00	0.00	0.00	1.54	0.20	9.25	0.04	0.00	0.00	0.00	0.00	0.00	0.00

These scales have positive scaling potential under initial temperature and pressure: Calcium Carbonate Barium Sulfate Iron Sulfide Iron Carbonate Zinc Sulfide Zinc Carbonate Lead Sulfide

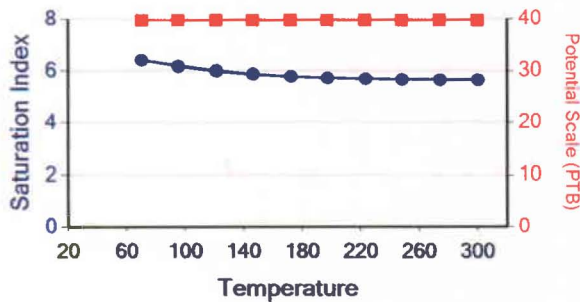
Calcium Carbonate



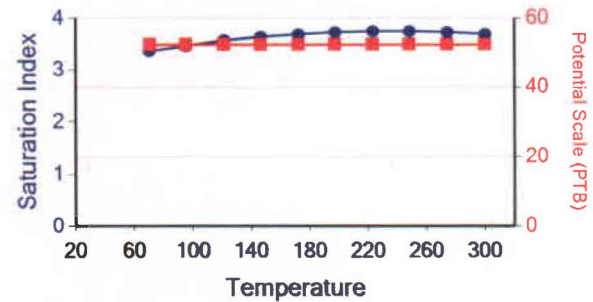
Barium Sulfate



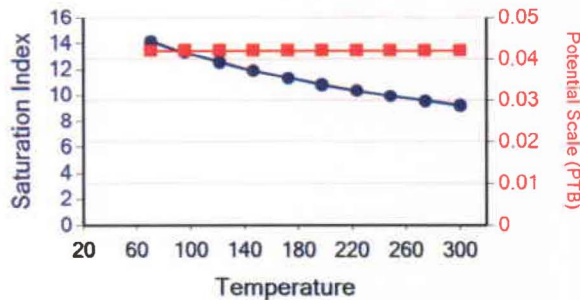
Iron Sulfide



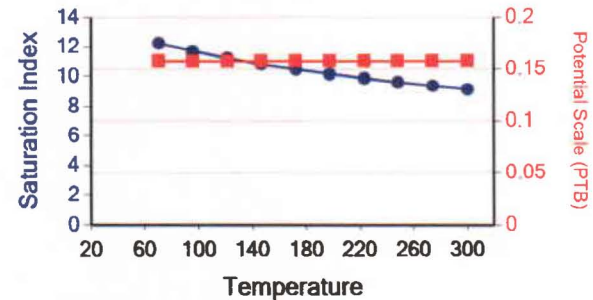
Iron Carbonate



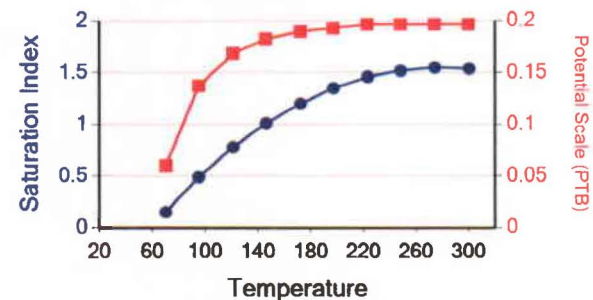
Lead Sulfide



Zinc Sulfide



Zinc Carbonate



**Attachment "G"**

**Federal #15-23-9-16  
Proposed Maximum Injection Pressure**

Frac Interval (feet)		Avg. Depth (feet)	ISIP (psi)	Calculated Frac Gradient (psi/ft)	Pmax
Top	Bottom				
5345	5368	5357	2177	0.84	2142
5006	5014	5010	3080	1.05	3047
4597	4606	4602	2078	0.89	2048
3956	3969	3963	1460	0.80	1434 ←
3867	3906	3887	1585	0.84	1560
				<b>Minimum</b>	<u><u>1434</u></u>

**Calculation of Maximum Surface Injection Pressure**

$P_{max} = (\text{Frac Grad} - (0.433 \times 1.015)) \times \text{Depth of Top Perf}$   
 where pressure gradient for the fresh water is .433 psi/ft and  
 specific gravity of the injected water is 1.015.

$\text{Frac Gradient} = (\text{ISIP} + (0.433 \times \text{Top Perf.})) / \text{Top Perf.}$

**Please note:** These are existing perforations; additional perforations may be added during the actual conversion procedure.



## DAILY COMPLETION REPORT

WELL NAME: Federal 15-23-9-16 Report Date: 4-Jan-08 Day: 1  
 Operation: Completion Rig: Rigless

## WELL STATUS

Surf Csg: 8 5/8' @ 322' Prod Csg: 5 1/2" @ 5793' Csg PBTD: 5707' WL  
 Tbg: Size: Wt: Grd: Pkr/EOT @: BP/Sand PBTD:

## PERFORATION RECORD

Zone	Perfs	SPF/#shots	Zone	Perfs	SPF/#shots
CP2 sds	5345-5368'	4/92			

## CHRONOLOGICAL OPERATIONS

Date Work Performed: 3-Jan-08 SITP: SICP: 0

Install 5M frac head. NU 6" 5M Cameron BOP. RU H/O truck & pressure test casing, blind rams, frac head & casing valves to 4500 psi. RU Perforators LLC WLT w/ mast & run CBL under pressure. WLTD @ 5707' & cement top @ 156'. Perforate stage #1. CP2 sds @ 5345- 68' w/ 3 1/8" slick guns (19 gram, .49" HE, 120 , 21.92" pen, EXP-3319-331 Titan) w/ 4 spf for total of 92 shots. 137 BWTR. SIFN.

## FLUID RECOVERY (BBLs)

Starting fluid load to be recovered: 137 Starting oil rec to date:   
 Fluid lost/recovered today: 0 Oil lost/recovered today:   
 Ending fluid to be recovered: 137 Cum oil recovered:   
 IFL: FFL: FTP: Choke: Final Fluid Rate: Final oil cut:

## STIMULATION DETAIL

Base Fluid used: Job Type:  
 Company:   
 Procedure or Equipment detail:

## COSTS

Weatherford BOP	\$540
NPC NU crew	\$300
NDSI trucking	\$800
Perforators LLC	\$7,424
Drilling cost	\$315,138
Zubiate hot oil	\$650
Location preparation	\$300
NPC wellhead	\$1,500
Benco - anchors	\$1,200
Admin. Overhead	\$3,000
NPC Supervisor	\$300

Max TP: Max Rate: Total fluid pmpd:  
 Avg TP: Avg Rate: Total Prop pmpd:  
 ISIP: 5 min: 10 min: 15 min:

Completion Supervisor: Orson Barney

DAILY COST: \$331,152  
 TOTAL WELL COST: \$331,152



## DAILY COMPLETION REPORT

WELL NAME: Federal 15-23-9-16 Report Date: 8-Jan-08 Day: 2  
 Operation: Completion Rig: Rigless

## WELL STATUS

Surf Csg: 8 5/8' @ 322' Prod Csg: 5 1/2" @ 5793' Csg PBTD: 5707' WL  
 Tbg: Size: Wt: Grd: Pkr/EOT @: BP/Sand PBTD:

## PERFORATION RECORD

Zone	Perfs	SPF/#shots	Zone	Perfs	SPF/#shots
CP2 sds	5345-5368'	4/92			

## CHRONOLOGICAL OPERATIONS

Date Work Performed: 7-Jan-08 SITP:  SICP: 0 psi

RU BJ Services. 0 psi on well. Frac CP2 sds w/ 73,000#'s of 20/40 sand in 603 bbls of Lightning 17 fluid. Broke @ 3145 psi. Pumped 780 gals of fresh wtr mixed with 30 gals of Techni-Hib 767W. Treated w/ ave pressure of 1939 ps @ ave rate of 23.2 BPM. ISIP 2177 psi. Begin immediate flowback on 12/64 choke @ 1 BPM. Flowed for 3 hrs & died. Rec est 190 BTF. SIWFN w/ 550 BWTR.

## FLUID RECOVERY (BBLs)

Starting fluid load to be recovered: 137 Starting oil rec to date:   
 Fluid lost/recovered today: 413 Oil lost/recovered today:   
 Ending fluid to be recovered: 550 Cum oil recovered:   
 IFL:  FFL:  FTP:  Choke:  Final Fluid Rate:  Final oil cut:

## STIMULATION DETAIL

Base Fluid used: Lightning 17 Job Type: Sand frac  
 Company: BJ Services

Procedure or Equipment detail: CP2 sands

780 gals of pre-pad of 4% Techni-Hib 767W

501 gals of flush spacer

5800 gals of pad

3944 gals W/ 1-5 ppg of 20/40 sand

7872 gals W/ 5-8 ppg of 20/40 sand

1158 gals W/ 8 ppg of 20/40 sand

Flush W/ 5250 gals of slick water

## COSTS

BJ Services	\$28,812
CD wtr & trucking	\$1,800
Zubiate hot oil	\$1,188
B&L- new J-55 tbg	\$25,193
Unichem chemicals	\$400
Pit reclaim	\$2,000
NPC sfc equipment	\$130,000
NPC location cleanup	\$300
Mt West sanitation	\$300
Boren welding/labor	\$19,500
NPC Supervisor	\$300

Max TP: 2335 Max Rate: 24.4 BPM Total fluid pmpd: 603 bbls

Avg TP: 1939 Avg Rate: 23.2 BPM Total Prop pmpd: 73,000#'s

ISIP: 277 5 min:  10 min:  FG: .84

Completion Supervisor: Orson Barney

DAILY COST: \$209,793

TOTAL WELL COST: \$540,945



## DAILY COMPLETION REPORT

WELL NAME: Federal 15-23-9-16 Report Date: 9-Jan-08 Day: 3  
 Operation: Completion Rig: Leed 731

## WELL STATUS

Surf Csg: 8 5/8' @ 322' Prod Csg: 5 1/2" @ 5793' Csg PBTD: 5707' WL  
 Tbg: Size: 2 7/8" Wt: 6.5# Grd: J-55 Pkr/EOT @:  BP/Sand PBTD:

## PERFORATION RECORD

Zone	Perfs	SPF/#shots	Zone	Perfs	SPF/#shots
CP2 sds	5345-5368'	4/92			

## CHRONOLOGICAL OPERATIONS

Date Work Performed: 8-Jan-08 SITP:  SICP: 110 psi

MIRU Leed 731. Hot oiler steamed & thawed out WH & BOP. 110 psi on well. Bleed off pressure. ND Cameror BOP & 5M WH. NU 3M WH & Schaffer BOP. SIWFN w/ 540 BWTR.

## FLUID RECOVERY (BBLs)

Starting fluid load to be recovered: 550 Starting oil rec to date:   
 Fluid lost/recovered today: 10 Oil lost/recovered today:   
 Ending fluid to be recovered: 540 Cum oil recovered:   
 IFL:  FFL:  FTP:  Choke:  Final Fluid Rate:  Final oil cut:

## TUBING DETAIL

## ROD DETAIL

## COSTS

KB	12.00'		Leed 731	\$3,424
	2 7/8 J-55 tbg ( )'		Weatherford BOP	\$225
	TA (2.80' @ ) KB		NPC wtr & trucking	\$400
2	2 7/8 J-55 tbg ( )'		NDSI trucking	\$800
	SN (1.10' @ ) KB			
2	2 7/8 J-55 tbg ( )'			
	2 7/8 Notched collar (.45)			
EOT	' w/ 12' KB			
			NPC Supervisor	\$300

DAILY COST: \$5,149

TOTAL WELL COST: \$546,094

Completion Supervisor: Orson Barney



**WELL NAME:** Federal 15-23-9-16 **Report Date:** 10-Jan-08 **Day:** 4  
**Operation:** Completion **Rig:** Leed 731

Surf Csg: 8 5/8' @ 322' Prod Csg: 5 1/2" @ 5793' Csg PBDT: 5748'  
Tbg: Size: 2 7/8" Wt: 6.5# Grd: J-55 Pkr/EOT @: 5280' BP/Sand PBDT: 5748'

<u>Zone</u>	<u>Perfs</u>	<u>SPF/#shots</u>	<u>Zone</u>	<u>Perfs</u>	<u>SPF/#shots</u>
CP2 sds	5345-5368'	4/92			

**Date Work Performed:** 9-Jan-08 **SITP:** **SICP:** 0

Hot oiler steamed & thawed out WH & BOP. No pressure on well. Talley, PU & RIH w/ production tbg as follows  
NC, 2-jts, SN, 2-jts, TA & 175 jts of tbg. Tagged sand @ 5600'. Tbg displaced 13 BW on TIH. C/O to PBTD @ 5748'  
TOH w/ 15 jts of tbg. EOT @ 5280', TA @ approx. 5152'. RU swab equipment. SIWFN w/ 527 BWTR.

<b>Starting fluid load to be recovered:</b>	<b>540</b>	<b>Starting oil rec to date:</b>	
<b>Fluid lost/recovered today:</b>	<b>13</b>	<b>Oil lost/recovered today:</b>	
<b>Ending fluid to be recovered:</b>	<b>527</b>	<b>Cum oil recovered:</b>	
<b>IFL:</b>	<b>FFL:</b>	<b>FTP:</b>	<b>Choke:</b>
			<b>Final Fluid Rate:</b>
			<b>Final oil cut:</b>

## COSTS

			Leed 731	\$4,940
KB	12.00'		Weatherford BOP	\$225
	2 7/8 J-55 tbg (     ')		CDI TA	\$525
	TA (2.80' @     ' KB)		CDI SN	\$80
2	2 7/8 J-55 tbg (     ')		Zubiate hot oil	\$390
	SN (1.10' @     ' KB)		NDSI wtr disposal	\$500
2	2 7/8 J-55 tbg (     ')		NPC location cleanup	\$400
	2 7/8 Notched collar (.45)		CDI rod pump	\$1,350
EOT	' w/ 12' KB			
			NPC Supervisor	\$300

<b>DAILY COST:</b>	<b>\$8,710</b>
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**TOTAL WELL COST: \$554,804**

**Completion Supervisor:** Orson Barney

# NEWFIELD



ATTACHMENT G-1  
5 of 16

## DAILY COMPLETION REPORT

WELL NAME: Federal 15-23-9-16 Report Date: 11-Jan-08 Day: 5  
Operation: Completion Rig: Leed 731

### WELL STATUS

Surf Csg: 8 5/8' @ 322' Prod Csg: 5 1/2" @ 5793' Csg PBTD: 5748'  
Tbg: Size: 2 7/8" Wt: 6.5# Grd: J-55 Pkr/EOT @: 5427' BP/Sand PBTD: 5738'

### PERFORATION RECORD

Zone	Perfs	SPF/#shots	Zone	Perfs	SPF/#shots
CP2 sds	5345-5368'	4/92			

### CHRONOLOGICAL OPERATIONS

Date Work Performed: 10-Jan-08 SITP:  SICP: 0 psi

Hot oiler steamed & thawed out WH & BOP. 0 psi on well. Swab. IFL @ sfc. Made 8 runs, Rec 158 BTF. FFL 900' TIH w/ tbg. Tagged sand @ 5738'. LD 11 jts of tbg. ND BOP. Set TA w/ 15,000#'s of tension @ 5300', SN @ 5364' EOT @ 5427'. NU WH. RU pump & lines. Flush tbg w/ 60 BW. "Did not have 1" rod boxes for wt bars". SIWFN w. 429 BWTR.

### FLUID RECOVERY (BBLs)

Starting fluid load to be recovered: 527 Starting oil rec to date:   
Fluid lost/recovered today: 98 Oil lost/recovered today:   
Ending fluid to be recovered: 429 Cum oil recovered:   
IFL:  FFL:  FTP:  Choke:  Final Fluid Rate:  Final oil cut:

### TUBING DETAIL

### ROD DETAIL

### COSTS

KB	12.00'		Leed 731	\$4,507
168	2 7/8 J-55 tbg (5285.39')		Weatherford BOP	\$225
	TA (2.75' @ 5300.14' KB)		Zubiate hot oil	\$420
2	2 7/8 J-55 tbg (62.67')			
	SN (1.10' @ 5363.91' KB)			
2	2 7/8 J-55 tbg (5427.00')			
	2 7/8 Notched collar (.45)			
EOT	5427.45' w/ 12' KB			
			NPC Supervisor	\$300

DAILY COST: \$5,452

Completion Supervisor: Orson Barney

TOTAL WELL COST: \$576,392



6 of 16

**WELL NAME:** Federal 15-23-9-16 **Report Date:** 12-Jan-08 **Day:** 6  
**Operation:** Completion **Rig:** Leed 731

Surf Csg:	<u>8 5/8"</u>	@	<u>322'</u>	Prod Csg:	<u>5 1/2"</u>	@	<u>5793'</u>	Csg PBDT:	<u>5748'</u>
Tbg:	Size: <u>2 7/8"</u>		Wt: <u>6.5#</u>	Grd:	<u>J-55</u>	Pkr/EOT @:	<u>5427'</u>	BP/Sand PBDT:	<u>5738'</u>

<u>Zone</u>	<u>Perfs</u>	<u>SPF/#shots</u>	<u>Zone</u>	<u>Perfs</u>	<u>SPF/#shots</u>
CP2 sds	5345-5368'	4/92			

**Date Work Performed:** 11-Jan-08 **SITP:** **SICP:** 0 psi

### FLUID RECOVERY (BBLS)

<b>Starting fluid load to be recovered:</b>	<b>429</b>	<b>Starting oil rec to date:</b>	
<b>Fluid lost/recovered today:</b>	<b>0</b>	<b>Oil lost/recovered today:</b>	
<b>Ending fluid to be recovered:</b>	<b>429</b>	<b>Cum oil recovered:</b>	
<b>IFL:</b>	<b>FFL:</b>	<b>FTP:</b>	<b>Choke:</b>
			<b>Final Fluid Rate:</b>
			<b>Final oil cut:</b>

## COSTS

			Leed 731	\$4,507
KB	12.00'	1 1/2" X 26' polished rod "A"	Weatherford BOP	\$225
168	2 7/8 J-55 tbg (5285.39')	1-8', 1-6' X 3/4" ponies "A"	Zubiate hot oil	\$232
	TA (2.75' @ 5300.14' KB)	99-3/4" scraped rods "B"	"B" grade rod string	\$9,612
2	2 7/8 J-55 tbg (62.67')	89-3/4" plain rods "B"	NPC frac tnk(2X 7dys)	\$560
	SN (1.10' @ 5363.91' KB)	20-3/4" scraped rods "B"	NPC swb tnk(1X5dys)	\$200
2	2 7/8 J-55 tbg (5427.00')	6-1 1/2" weight rods "B"	NPC frac head	\$500
	2 7/8 Notched collar (.45)	CDI 2 1/2' X 1 1/2" X 15'		
EOT	5427.45' w/ 12' KB	RHAC pump W/ SM plunger		
			NPC Supervisor	\$300

<b>DAILY COST:</b>	<b>\$16,136</b>
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**TOTAL WELL COST: \$592,528**

**Completion Supervisor: Orson Barney**



**WELL NAME:** Federal 15-23-9-16 **Report Date:** 3/8/2008 **Day:** 7  
**Operation:** Completion **Rig:** Leed 731

Surf Csg: 8 5/8' @ 322' Prod Csg: 5 1/2" @ 5793' Csg PBTD: 5748'  
Tbg: Size: 2 7/8" Wt: 6.5# Grd: J-55 Pkr/EOT @: 5427' BP/Sand PBTD: 5738'

<u>Zone</u>	<u>Perfs</u>	<u>SPF/#shots</u>	<u>Zone</u>	<u>Perfs</u>	<u>SPF/#shots</u>
CP2 sds	5345-5368'	4/92			

**Date Work Performed:** 3/7/2008 **SITP:** **SICP:** 0 psi

MIRU Leed 731. RD pumping unit. Unseat pump. Flush rods w/ 45 bbls 250 water. Soft seat pump. Pressure tes  
 tbg. to 3000 psi. Unseat pump. POOH w/ rods. LD pump. X-over for tbg. ND wellhead. Release TAC. NU BOP  
 POOH w/ 70 jts 2 7/8" tbg. SWIFN.

Starting fluid load to be recovered: \_\_\_\_\_ Starting oil rec to date: \_\_\_\_\_  
 Fluid lost/recovered today: \_\_\_\_\_ Oil lost/recovered today: \_\_\_\_\_  
 Ending fluid to be recovered: \_\_\_\_\_ Cum oil recovered: \_\_\_\_\_  
 IFL: \_\_\_\_\_ FFL: \_\_\_\_\_ FTP: \_\_\_\_\_ Choke: \_\_\_\_\_ Final Fluid Rate: \_\_\_\_\_ Final oil cut: \_\_\_\_\_

## COSTS

		Leed 731	\$4,480
		Weatherford BOP	\$275
		Action Hot Oil	\$450
		NDSI Trucking	\$1,000
		CD Trucking	\$300
		Rocky Mt. T.O.C.	\$400
		NPC Supervisor	\$300

**DAILY COST:** \$7,205

**TOTAL WELL COST: \$599,733**

**Completion Supervisor: Don Dulen**



**WELL NAME:** Federal 15-23-9-16      **Report Date:** 3/10/2008      **Day:** 8  
**Operation:** Completion      **Rig:** Leed 731

Surf Csg:	<u>8 5/8'</u>	@	<u>322'</u>	Prod Csg:	<u>5 1/2"</u>	@	<u>5793'</u>	Csg PBTD:	<u>5748'</u>
Tbg:	Size: <u>2 7/8"</u>		Wt: <u>6.5#</u>	Grd:	<u>J-55</u>	Pkr/EOT @:	<u>5427'</u>	BP/Sand PBTD:	<u>5738'</u>

<u>Zone</u>	<u>Perfs</u>	<u>SPF/#shots</u>	<u>Zone</u>	<u>Perfs</u>	<u>SPF/#shots</u>
CP2 sds	5345-5368'	4/92			

**Date Work Performed:** 3/8/2008 **SITP:** **SICP:** 0 psi

Cont. POOH w/ tbg. LD BHA. RU wireline truck. Set CIBP @ 5350'. RD wireline truck. ND BOP & 3m production head. NU 5m frac head & Cameron BOP. Fill hole w/ 85 bbls 4% KCL water. Pressure test CIBP, frac head & BOPs to 4500 psi. SWIFN.

Starting fluid load to be recovered: \_\_\_\_\_ Starting oil rec to date: \_\_\_\_\_  
 Fluid lost/recovered today: \_\_\_\_\_ Oil lost/recovered today: \_\_\_\_\_  
 Ending fluid to be recovered: \_\_\_\_\_ Cum oil recovered: \_\_\_\_\_  
 IFL: \_\_\_\_\_ FFL: \_\_\_\_\_ FTP: \_\_\_\_\_ Choke: \_\_\_\_\_ Final Fluid Rate: \_\_\_\_\_ Final oil cut: \_\_\_\_\_

## **COSTS**

[illegible]

<b>DAILY COST:</b>	<b>\$6,952</b>
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**TOTAL WELL COST: \$606,685**

**Completion Supervisor: Don Dulen**



**WELL NAME:** Federal 15-23-9-16 **Report Date:** 3/11/2008 **Day:** 9  
**Operation:** Completion **Rig:** Leed 731

Surf Csg:	<u>8 5/8'</u>	@	<u>322'</u>	Prod Csg:	<u>5 1/2"</u>	@	<u>5793'</u>	Csg PBDT:	<u>5748'</u>
Tbg:	Size: <u>2 7/8"</u>	Wt:	<u>6.5#</u>	Grd:	<u>J-55</u>	Pkr/EOT @:	<u>5427'</u>	BP/Sand PBDT:	<u>5738'</u>

<u>Zone</u>	<u>Perfs</u>	<u>SPF/#shots</u>	<u>Zone</u>	<u>Perfs</u>	<u>SPF/#shots</u>
			<b>5300' CIBP</b>		
			<b>CP2 sds</b>	<b>5345-5368'</b>	<b>4/92</b>
<b>LODC sds</b>	<b>5006-5014'</b>	<b>4/32</b>			

**Date Work Performed:** 3/10/2008 **SITP:** **SICP:** 0 psi

Starting fluid load to be recovered: \_\_\_\_\_ Starting oil rec to date: \_\_\_\_\_  
 Fluid lost/recovered today: \_\_\_\_\_ Oil lost/recovered today: \_\_\_\_\_  
 Ending fluid to be recovered: \_\_\_\_\_ Cum oil recovered: \_\_\_\_\_  
 IFL: \_\_\_\_\_ FFL: \_\_\_\_\_ FTP: \_\_\_\_\_ Choke: \_\_\_\_\_ Final Fluid Rate: \_\_\_\_\_ Final oil cut: \_\_\_\_\_

[illegible]

**TOTAL WELL COST:** \$616,821

**Completion Supervisor:** Ron Shuck

# DAILY COMPLETION REPORT

**WELL NAME:** Federal 15-23-9-16 **Report Date:** 3/12/2008 **Day:** 10a  
**Operation:** Completion **Rig:** Leed 731

## WELL STATUS

Surf Csg: 8 5/8' @ 322' Prod Csg: 5 1/2" @ 5793' Csg PBDT: 5748'  
Tbg: Size: 2 7/8" Wt: 6.5# Grd: J-55 Pkr/EOT @: BP/Sand PBDT: 5738'

## PERFORATION RECORD

<u>Zone</u>	<u>Perfs</u>	<u>SPF/#shots</u>	<u>Zone</u>	<u>Perfs</u>	<u>SPF/#shots</u>
				<b>5300' CIBP</b>	
			<b>CP2 sds</b>	<b>5345-5368'</b>	<b>4/92</b>
<b>LODC sds</b>	<b>5006-5014'</b>	<b>4/32</b>			

## CHRONOLOGICAL OPERATIONS

**Date Work Performed:** 3/11/2008 **SITP:** **SICP:** 0 psi

Day10a.

RU BJ Services "Ram Head" frac flange & frac LODC sds stage #1 down casing w/ 40,149#s of 20/40 sand in 417 bbls of Lightning 17 frac fluid. Open well w/ 0 psi on casing. Perfs broke down @ 3188 psi. Pump 30 gals of Techna Hib chemical. Treated @ ave pressure of 2660 @ ave rate of 26.2 bpm w/ 8 ppg of sand. Spot 12 bbls of 15% HCl acid in flush for next stage. ISIP was 3080. 543 bbls EWTR. Leave pressure on well. **See day10b.**

**FLUID RECOVERY (BBLS)**

Starting fluid load to be recovered:	<u>126</u>	Starting oil rec to date:	<u>                    </u>
Fluid lost/recovered today:	<u>417</u>	Oil lost/recovered today:	<u>                    </u>
Ending fluid to be recovered:	<u>543</u>	Cum oil recovered:	<u>                    </u>
IFL:	FFL:	FTP:	Choke:
			Final Fluid Rate:
			Final oil cut:

## STIMULATION DETAIL

Base Fluid used: Lightning 17 Job Type: Sand frac  
Company: BJ Services

**Procedure or Equipment detail:** LODC sds down casing

1764 gals w/ Techna Hib & to cross link

3192 gals of pad

2500 gals w/ 1-5 ppg of 20/40 sand

5060 gals w/ 5-8 ppg of 20/40 sand

504 gals of 15% HCL acid

Flush w/ 4494 gals of slick water

## **COSTS**

<u>Weatherford BOP's</u>	<u>\$300</u>
<u>Weatherford Services</u>	<u>\$2,000</u>
<u>C-D trkg frac water</u>	<u>\$1,000</u>
<u>Zubiate Hot Oil</u>	<u>\$955</u>
<u>BJ Services LODCsds</u>	<u>\$22,459</u>
<u>NPC Supervisor</u>	<u>\$300</u>

**\*\*Flush called @ blender to include 2 bbls for pump/line volume\*\***

**Max TP: 2844    Max Rate:    29.2    Total fluid pmpd:    417 bbls**

**Avg TP: 2660 Avg Rate: 26.2 bpm Total Prop pmpd: 40,149#'s**

ISIP: 3080      5 min:      10 min:      FG: 1.1

**Completion Supervisor: Ron Shuck**

<b>DAILY COST:</b>	<b>\$27,014</b>
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**TOTAL WELL COST: \$643,835**



## DAILY COMPLETION REPORT

WELL NAME: Federal 15-23-9-16 Report Date: 3/12/2008 Day: 10b  
 Operation: Completion Rig: Leed 731

## WELL STATUS

Surf Csg: 8 5/8' @ 322' Prod Csg: 5 1/2" @ 5793' Csg PBTD: 5300'  
 Tbg: Size: 2 7/8" Wt: 6.5# Grd: J-55 Pkr/EOT @:                      BP/Sand PBTD: 4700'

## PERFORATION RECORD

Zone	Perfs	SPF/#shots	Zone	Perfs	SPF/#shots
				5300' CIBP	
			CP2 sds	5345-5368'	4/92
C sds	4597-4606'	4/36			
LODC sds	5006-5014'	4/32			

## CHRONOLOGICAL OPERATIONS

Date Work Performed: 3/11/2008 SITP:                      SICP: 1590

Day10b.

RU WLT. RIH w/ 5-1/2" Weatherford (6K) composite flow through frac plug & 9' perf gun. Set plug @ 4700' Perforate C sds @ 4597-4606' w/ 4 spf for total of 36 shots. RU BJ & frac stage #2 w/ 15,394#'s of 20/40 sand in 262 bbls of Lightning 17 frac fluid. Open well w/ 1590 psi on casing. Perfs broke down @ 2289 psi. Pump 30 gals o Techna Hib chemical. Treated @ ave pressure of 2078 @ ave rate of 23.3 bpm w/ 6.5 ppg of sand. Spot 12 bbls o 15% HCL acid in flush for next stage. ISIP was 2078. 805 bbls EWTR. Leave pressure on well. **See day10c.**

## FLUID RECOVERY (BBLs)

Starting fluid load to be recovered: 543 Starting oil rec to date:                       
 Fluid lost/recovered today: 262 Oil lost/recovered today:                       
 Ending fluid to be recovered: 805 Cum oil recovered:                       
 IFL:                      FFL:                      FTP:                      Choke:                      Final Fluid Rate:                      Final oil cut:                     

## STIMULATION DETAIL

## COSTS

Base Fluid used: Lightning 17 Job Type: Sand frac  
 Company: BJ Services

Procedure or Equipment detail: C sds down casing

1428 gals w/ Techna Hib & to cross link

1470 gals of pad

1149 gals w/ 1-4 ppg of 20/40 sand

2379 gals w/ 4-6.5 ppg of 20/40 sand

504 gals of 15% HCL acid

Flush w/ 4074 gals of slick water

Weatherford Services \$2,300

C-D trkg frac water \$400

Zubiate Hot Oil \$380

BJ Services C sds \$4,741

Lone Wolf C sds \$4,000

**\*\*Flush called @ blender to include 2 bbls for pump/line volume\*\***

Max TP: 2265 Max Rate: 23.5 Total fluid pmpd: 262 bbls

Avg TP: 2078 Avg Rate: 23.3 bpm Total Prop pmpd: 15,394#'s

ISIP: 1630 5 min:                      10 min:                      FG: .79

Completion Supervisor: Ron Shuck

DAILY COST: \$11,821

TOTAL WELL COST: \$655,656



## DAILY COMPLETION REPORT

WELL NAME: Federal 15-23-9-16 Report Date: 3/12/2008 Day: 10c  
 Operation: Completion Rig: Leed 731

## WELL STATUS

Surf Csg: 8 5/8' @ 322' Prod Csg: 5 1/2" @ 5793' Csg PBTD: 5300'  
 Tbg: Size: 2 7/8" Wt: 6.5# Grd: J-55 Pkr/EOT @: BP/Sand PBTD: 4070'  
 plug 4700'

## PERFORATION RECORD

Zone	Perfs	SPF/#shots	Zone	Perfs	SPF/#shots
				<u>5300' CIBP</u>	
			<u>CP2 sds</u>	<u>5345-5368'</u>	<u>4/92</u>
<u>GB6 sds</u>	<u>3956-3969'</u>	<u>4/52</u>			
<u>C sds</u>	<u>4597-4606'</u>	<u>4/36</u>			
<u>LODC sds</u>	<u>5006-5014'</u>	<u>4/32</u>			

## CHRONOLOGICAL OPERATIONS

Date Work Performed: 3/11/2008 SITP: 1130 SICP: 1130

Day10c.

RU WLT. RIH w/ frac plug & 13' perf gun. Set plug @ 4070'. Perforate GB6 sds @ 3956-69' w/ 4 spf for total of 5: shots. RU BJ & frac stage #3 w/ 79,237#'s of 20/40 sand in 602 bbls of Lightning 17 frac fluid. Open well w/ 1130 ps on casing. Perfs broke down @ 1171 psi. Pump 30 gals of Techna Hib chemical. Treated @ ave pressure of 1468 @ ave rate of 26.2 bpm w/ 8 ppg of sand. Spot 12 bbls of 15% HCL acid in flush for next stage. ISIP was 1460. 1407 bbls EWTR. Leave pressure on well. See day10d.

## FLUID RECOVERY (BBLs)

Starting fluid load to be recovered: 805 Starting oil rec to date:                       
 Fluid lost/recovered today: 602 Oil lost/recovered today:                       
 Ending fluid to be recovered: 1407 Cum oil recovered:                       
 IFL:                      FFL:                      FTP:                      Choke:                      Final Fluid Rate:                      Final oil cut:                     

## STIMULATION DETAIL

## COSTS

Base Fluid used: Lightning 17 Job Type: Sand frac  
 Company: BJ Services

Procedure or Equipment detail: GB6 sds down casing

1428 gals w/ Techna Hib & to cross link

5964 gals of pad

4000 gals w/ 1-5 ppg of 20/40 sand

8000 gals w/ 5-8 ppg of 20/40 sand

1902 gals w/ 8 ppg of 20/40 sand

504 gals of 15% HCL acid

Flush w/ 3486 gals of slick water

\*\*Flush called @ blender to include 2 bbls for pump/line volume\*\*

Max TP: 1710 Max Rate: 26.4 Total fluid pmpd: 602 bbls

Avg TP: 1468 Avg Rate: 26.2 bpm Total Prop pmpd: 79,237#'s

ISIP: 1460 5 min:                      10 min:                      FG: .80

Completion Supervisor: Ron Shuck

<u>Weatherford Services</u>	<u>\$2,300</u>
<u>C-D trkg frac water</u>	<u>\$2,000</u>
<u>Zubiate Hot Oil</u>	<u>\$1,910</u>
<u>BJ Services GB6 sds</u>	<u>\$16,738</u>
<u>Lone Wolf GB6 sds</u>	<u>\$4,000</u>
<u>                                    </u>	<u>                    </u>
<u>                                    </u>	<u>                    </u>
<u>                                    </u>	<u>                    </u>
<u>                                    </u>	<u>                    </u>
<u>                                    </u>	<u>                    </u>
<u>                                    </u>	<u>                    </u>
<u>                                    </u>	<u>                    </u>
<u>                                    </u>	<u>                    </u>

DAILY COST: \$26,948

TOTAL WELL COST: \$682,604



## DAILY COMPLETION REPORT

WELL NAME: Federal 15-23-9-16 Report Date: 3/12/2008 Day: 10d  
 Operation: Completion Rig: Leed 731

## WELL STATUS

Surf Csg: 8 5/8' @ 322' Prod Csg: 5 1/2" @ 5793' Csg PBDT: 5300'  
 Tbg: Size: 2 7/8" Wt: 6.5# Grd: J-55 Pkr/EOT @: BP/Sand PBDT: 3925'  
 plug 4700' 4070'

## PERFORATION RECORD

Zone	Perfs	SPF/#shots	Zone	Perfs	SPF/#shots
GB2 sds	3867-3873'	4/24		5300' CIBP	
GB4 sds	3897-3906'	4/36	CP2 sds	5345-5368'	4/92
GB6 sds	3956-3969'	4/52			
C sds	4597-4606'	4/36			
LODC sds	5006-5014'	4/32			

## CHRONOLOGICAL OPERATIONS

Date Work Performed: 3/11/2008 SITP: 1262 SICP: 1262

Day10d.

RU WLT. RIH w/ frac plug & 9', 6' perf gun. Set plug @ 3925'. Perforate GB4 sds @ 3897-3906' & GB2 sds @ 3867-73' w/ 4 spf for total of 60 shots. RU BJ & frac stage #4 w/ 25,572#'s of 20/40 sand in 325 bbls of Lightning 17 frac fluid. Open well w/ 1262 psi on casing. Perfs broke down @ 1467 psi. Pump 30 gals of Techna Hib chemical Treated @ ave pressure of 1710 @ ave rate of 25.9 bpm w/ 6.5 ppg of sand. ISIP was 1585. 1732 bbls EWTR. RC BJ & WLT. Flow well back. Well flowed for 6 hours & died w/ 480 bbls rec'd. RD Cameron BOP's & 5K frac head Instal 3K production tbg head & Schaefer BOP's. SIFN.

## FLUID RECOVERY (BBLs)

Starting fluid load to be recovered: 1732 Starting oil rec to date:                       
 Fluid lost/recovered today: 480 Oil lost/recovered today:                       
 Ending fluid to be recovered: 1254 Cum oil recovered:                       
 IFL:                      FFL:                      FTP:                      Choke:                      Final Fluid Rate:                      Final oil cut:                     

## STIMULATION DETAIL

Base Fluid used: Lightning 17 Job Type: Sand frac  
 Company: BJ Services

Procedure or Equipment detail: GB4 & GB2 sds down casing

1470 gals w/ Techna Hib & to cross link

2478 gals of pad

1915 gals w/ 1-4 ppg of 20/40 sand

4007 gals w/ 4-6.5 ppg of 20/40 sand

Flush w/ 3780 gals of slick water

## COSTS

LEED rig	\$4,958
Weatherford Services	\$2,300
C-D trkg frac water	\$640
Zubiate Hot Oil	\$600
BJ Services GB6 sds	\$19,567
Lone Wolf GB6 sds	\$4,000
RNI water disposal	\$1,000

Max TP: 1930 Max Rate: 26.1 Total fluid pmpd: 325 bbls  
 Avg TP: 1710 Avg Rate: 25.9 bpm Total Prop pmpd: 25,572#'s  
 ISIP: 1585 5 min:                      10 min:                      FG: .84

Completion Supervisor: Ron Shuck

DAILY COST: \$33,065  
 TOTAL WELL COST: \$715,669



**WELL NAME:** Federal 15-23-9-16 **Report Date:** 3/13/2008 **Day:** 11  
**Operation:** Completion **Rig:** Leed 731

Surf Csg:	<u>8 5/8'</u>	@	<u>322'</u>	Prod Csg:	<u>5 1/2"</u>	@	<u>5793'</u>	Csg PBTD:	<u>5300'</u>
Tbg:	Size: <u>2 7/8"</u>		Wt: <u>6.5#</u>	Grd:	<u>J-55</u>	Pkr/EOT @:	<u>5201'</u>	BP/Sand PBTD:	<u>5300'</u>

<u>Zone</u>	<u>Perfs</u>	<u>SPF/#shots</u>	<u>Zone</u>	<u>Perfs</u>	<u>SPF/#shots</u>
GB2 sds	3867-3873'	4/24		5300' CIBP	
GB4 sds	3897-3906'	4/36	CP2 sds	5345-5368'	4/92
GB6 sds	3956-3969'	4/52			
C sds	4597-4606'	4/36			
LODC sds	5006-5014'	4/32			

**Date Work Performed:** 3/12/2008 **SITP:** **SICP:** 150

### FLUID RECOVERY (BBLS)

<b>Starting fluid load to be recovered:</b> <u>1732</u> <b>Fluid lost/recovered today:</b> <u>0</u> <b>Ending fluid to be recovered:</b> <u>1732</u> <b>IFL:</b> <b>FFL:</b> <b>FTP:</b>	<b>Starting oil rec to date:</b> _____ <b>Oil lost/recovered today:</b> _____ <b>Cum oil recovered:</b> _____ <b>Choke:</b> <b>Final Fluid Rate:</b> <b>Final oil cut:</b>	
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## COSTS

			LEED rig	\$5,344
KB	12.00'	1 1/2" X 26' polished rod	Weatherford BOP's	\$300
169	2 7/8 J-55 tbg (5291')	X 3/4" ponies	Nabors swivel	\$750
	TA (2.75')	3/4" scraped rods	D&M Hot Oil	\$325
	2 7/8 J-55 tbg (62.67')	3/4" plain rods	NPC Supervisor	\$300
	SN (1.10')	20-3/4" scraped rods		
	2 7/8 J-55 tbg (')	6-1 1/2" weight rods		
	2 7/8 Notched collar (.45)	CDI 2 1/2' X 1 1/2" X '		
EOT	w/ 12' KB	RHAC pump W/ SM plunger		

<b>DAILY COST:</b>	<b>\$7,019</b>
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**TOTAL WELL COST: \$722,688**

**Completion Supervisor: Ron Shuck**



**WELL NAME:** Federal 15-23-9-16 **Report Date:** 3/14/2008 **Day:** 12  
**Operation:** Completion **Rig:** Leed 731

Surf Csg:	<u>8 5/8'</u>	@	<u>322'</u>	Prod Csg:	<u>5 1/2"</u>	@	<u>5793'</u>	Csg PBTD:	<u>5300'</u>
Tbg:	Size: <u>2 7/8"</u>	Wt:	<u>6.5#</u>	Grd:	<u>J-55</u>	Pkr/EOT @:	<u>5201'</u>	BP/Sand PBTD:	<u>5300'</u>

<u>Zone</u>	<u>Perfs</u>	<u>SPF/#shots</u>	<u>Zone</u>	<u>Perfs</u>	<u>SPF/#shots</u>
GB2 sds	3867-3873'	4/24		5300' CIBP	
GB4 sds	3897-3906'	4/36	CP2 sds	5345-5368'	4/92
GB6 sds	3956-3969'	4/52			
C sds	4597-4606'	4/36			
LODC sds	5006-5014'	4/32			

**Date Work Performed:** 3/13/2008 **SITP:** **SICP:**

Thaw well out. Open well w/ 0 psi on casing. RU swab equipment. Made 11 runs to rec'd 140 bbls fluid. IFL was surface. FFL was 1400'. Last run showed trace of oil w/ trace of sand. RD swab equip. TIH w/ tbg to tag sand @ 5295'. Circulate well clean. TOOH w/ tbg. LD bit & bit sub. TIH w/ NC, 2 jts, SN, 1 jt tbg, TA (45,000#'s new CDI) 159 its tbg. Drain pump & lines. SIFN.

<b>Starting fluid load to be recovered:</b>	<u><b>1732</b></u>	<b>Starting oil rec to date:</b>	
<b>Fluid lost/recovered today:</b>	<u><b>0</b></u>	<b>Oil lost/recovered today:</b>	
<b>Ending fluid to be recovered:</b>	<u><b>1732</b></u>	<b>Cum oil recovered:</b>	
<b>IFL:</b>	<b>FFL:</b>	<b>FTP:</b>	<b>Choke:</b>
			<b>Final Fluid Rate:</b>
			<b>Final oil cut:</b>

## COSTS

			LEED rig	\$5,468
KB	12.00'	1 1/2" X 26' polished rod	Weatherford BOP's	\$300
162	2 7/8 J-55 tbg (5054')	X 3/4" ponies	CDI TA & SN	\$625
	TA (2.75')	3/4" scraped rods	Location clean up	\$500
	2 7/8 J-55 tbg (')	3/4" plain rods	Mtn West Sanitation	\$300
	SN (1.10')	20-3/4" scraped rods	NDSI wtr disposal	\$3,000
	2 7/8 J-55 tbg (')	6-1 1/2" weight rods	NPC Supervisor	\$300
	2 7/8 Notched collar (.45)	CDI 2 1/2' X 1 1/2" X '		
EOT	w/ 12' KB	RHAC pump W/ SM plunger		

<b>DAILY COST:</b>	<b>\$10,493</b>
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**TOTAL WELL COST: \$733,181**

**Completion Supervisor: Ron Shuck**



## DAILY COMPLETION REPORT

WELL NAME: Federal 15-23-9-16 Report Date: 3/15/2008 Day: 13  
 Operation: Completion Rig: Leed 731

## WELL STATUS

Surf Csg: 8 5/8' @ 322' Prod Csg: 5 1/2" @ 5793' Csg PBTD: 5300'  
 Tbg: Size: 2 7/8" Wt: 6.5# Grd: J-55 Pkr/EOT @: 5201' BP/Sand PBTD: 5300'

## PERFORATION RECORD

Zone	Perfs	SPF/#shots	Zone	Perfs	SPF/#shots
GB2 sds	3867-3873'	4/24		5300' CIBP	
GB4 sds	3897-3906'	4/36	CP2 sds	5345-5368'	4/92
GB6 sds	3956-3969'	4/52			
C sds	4597-4606'	4/36			
LODC sds	5006-5014'	4/32			

## CHRONOLOGICAL OPERATIONS

Date Work Performed: 3/14/2008 SITP:  SICP: 0

Thaw well out. Open well w/ 0 psi on casing. RD BOP's. Set TA @ 5004' in 16000#'s tension w/ SN @ 5036' w/ EOT @ 5099'. Flush tbg w/ 60 bbls water. Pick up & prime pump. TIH w/ 2-1/2" x 1-1/2" x 10' x 15.5' RHAC new CDI pump w/ 127"SL, 6- 1-1/2" weight rods, 20- 3/4" guided rods, 77- 3/4" plain rods, 99- 3/4" guided rods, 1-1/2" x 26' polished rod. Space pump. RDMOSU. POP @ 5PM w/ 102"SL @ 5 SPM. **Final Report.**

## FLUID RECOVERY (BBLs)

Starting fluid load to be recovered: 1732 Starting oil rec to date:   
 Fluid lost/recovered today: 0 Oil lost/recovered today:   
 Ending fluid to be recovered: 1732 Cum oil recovered:   
 IFL:  FFL:  FTP:  Choke:  Final Fluid Rate:  Final oil cut:

## TUBING DETAIL

## ROD DETAIL

## COSTS

KB	12.00'		LEED rig	\$4,802
159	2 7/8 J-55 tbg	5001.42'	Weatherford BOP's	\$300
	TA (2.75')	5004.17'	CDI pump	\$1,480
1	2 7/8 J-55 tbg (31.38')		NPC frac head	\$500
	SN (1.10')	5036.65'	NPC tnks (5x8dys)	\$1,600
2	2 7/8 J-55 tbg (62.67')		NPC swab tnk (6dys)	\$240
	2 7/8 Notched collar (.45)		NPC Supervisor	\$300
EOT	w/ 12' KB	5099.77'	Rds ("A" grade)	\$12,700
			NPC trkg	\$900
			Zubiate Hot Oil	\$650

DAILY COST: \$23,472

TOTAL WELL COST: \$756,653

Completion Supervisor: Ron Shuck

## **ATTACHMENT H**

### **WORK PROCEDURE FOR PLUGGING AND ABANDONMENT**

1. Set CIBP @ 3817'
2. Plug #1 Set 100' plug on top of CIBP using 12 sx Class "G" cement
3. Plug #2 151' balance plug using 17 sx Class "G" cement 50' above Trona-Bird's Nest extending 50' below base of Mahogany Oil Shale
4. Plug #3 120' balance plug using 14sx Class "G" cement 60' above Uinta/Green River and extending 60' below
5. Plug #4 Pump 45 sx Class "G" cement down 5 ½" casing to 372'

The approximate cost to plug and abandon this well is \$42,000.

# FEDERAL 15-23-9-16

Attachment H-1

Spud Date: 11/26/07  
Put on Production: 3/14/08  
GL: 5784' KB: 5796'

Initial Production: BOPD,  
MCFD, BWPD

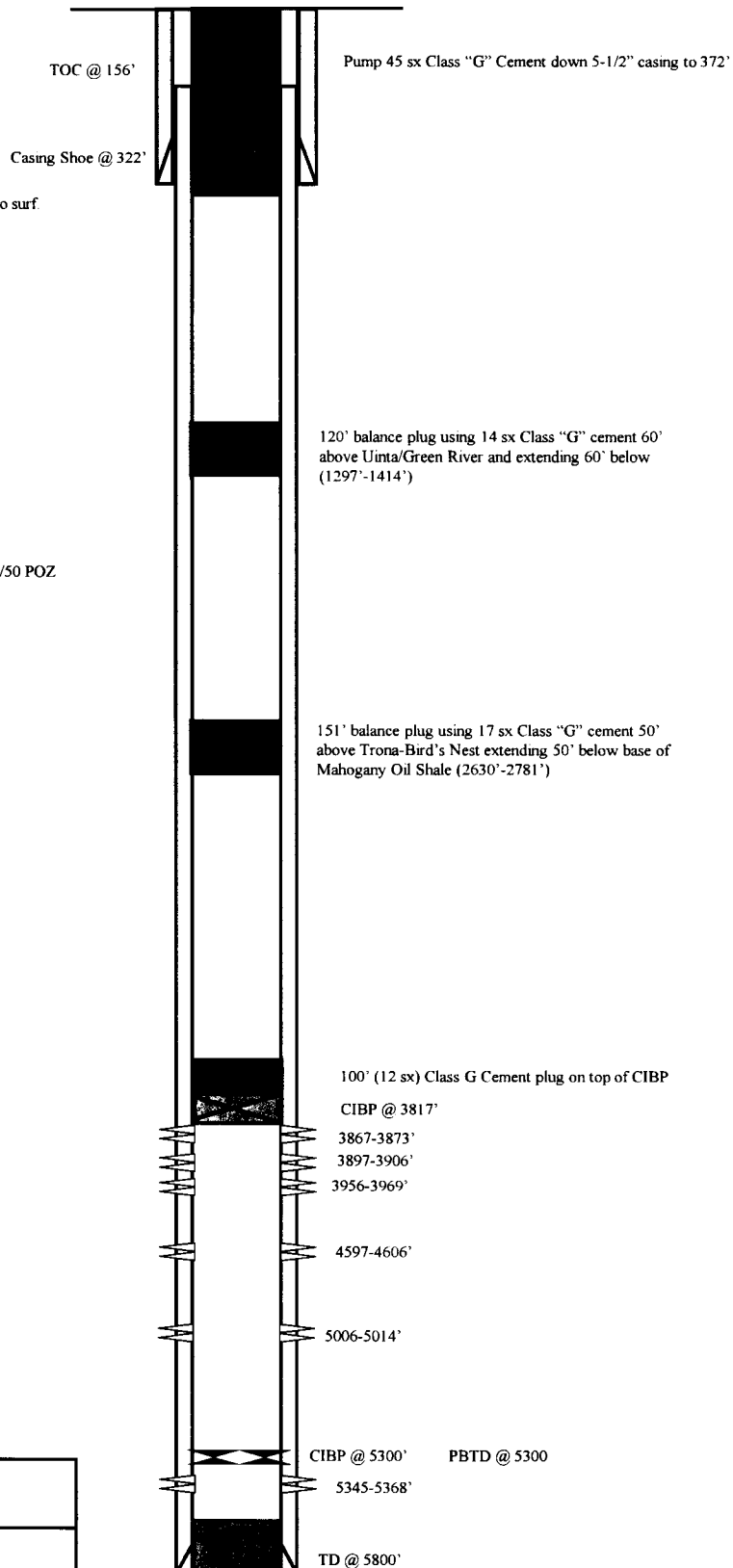
## SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH 7 jts (310.15')  
DEPTH LANDED: 322.00' KB  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 1- 160, sxs Class "G" cmt, est 5 bbls cmt to surf.

## PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH 136 jts (5779.63')  
DEPTH LANDED: 5792.88' KB  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 300 sxs Prem. Lite II mixed & 400 sxs 50/50 POZ  
CEMENT TOP: 156'

## Proposed P & A Wellbore Diagram



**NEWFIELD**

**FEDERAL 15-23-9-16**

603' FSL & 2162' FEL

SW/SE Section 23-T9S-R16E

Duchesne Co, Utah

API #43-013-33182; Lease # UTU-15855

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-15855
<b>1. TYPE OF WELL</b> Water Injection Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>2. NAME OF OPERATOR:</b> NEWFIELD PRODUCTION COMPANY		<b>7. UNIT or CA AGREEMENT NAME:</b> GMBU (GRRV)
<b>3. ADDRESS OF OPERATOR:</b> Rt 3 Box 3630, Myton, UT, 84052		<b>8. WELL NAME and NUMBER:</b> FEDERAL 15-23-9-16
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0603 FSL 2162 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWSE Section: 23 Township: 09.0S Range: 16.0E Meridian: S		<b>9. API NUMBER:</b> 43013331820000
<b>PHONE NUMBER:</b> 435 646-4825 Ext		<b>9. FIELD and POOL or WILDCAT:</b> MONUMENT BUTTE
<b>COUNTY:</b> DUCHESNE		<b>STATE:</b> UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 12/18/2014	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input checked="" type="checkbox"/> OTHER	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION	
<input type="checkbox"/> DRILLING REPORT Report Date:	OTHER: <input type="text" value="WorkOver MIT"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  The above subject well had workover procedures performed (packer repair), attached is a daily status report. On 12/12/2014 Richard Powell with the State of Utah was contacted concerning the MIT on the above listed well. On 12/18/2014 the csg was pressured up to 1746 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tbq pressure was 400 psig during the test. There was a State representative available to witness the test - Richard Powell.		
Accepted by the Utah Division of Oil, Gas and Mining <b>FOR RECORD ONLY</b> December 23, 2014		
<b>NAME (PLEASE PRINT)</b> Lucy Chavez-Naupoto	<b>PHONE NUMBER</b> 435 646-4874	<b>TITLE</b> Water Services Technician
<b>SIGNATURE</b> N/A	<b>DATE</b> 12/23/2014	

# Mechanical Integrity Test Casing or Annulus Pressure Test

Newfield Production Company  
Rt. 3 Box 3630  
Myton, UT 84052  
435-646-3721

Witness: Richard Powell DEEM Date: 12/18/2014 Time: 1:00 A.M. P.M.

Test Conducted by: Everett Unruh

Others Present: \_\_\_\_\_

Well:	Federal 15-23-9-16	Field:	Monument Butte
Well Location:	SWSE Sec 23 T9S R16E Duchesne County, UT	API No:	43-013-33182

Time	Casing Pressure
0 min	<u>1746</u> psig
5	<u>1746</u> psig
10	<u>1746</u> psig
15	<u>1746</u> psig
20	<u>1746</u> psig
25	<u>1746</u> psig
30 min	<u>1746</u> psig
35	_____ psig
40	_____ psig
45	_____ psig
50	_____ psig
55	_____ psig
60 min	_____ psig

Tubing Pressure: 400 psig

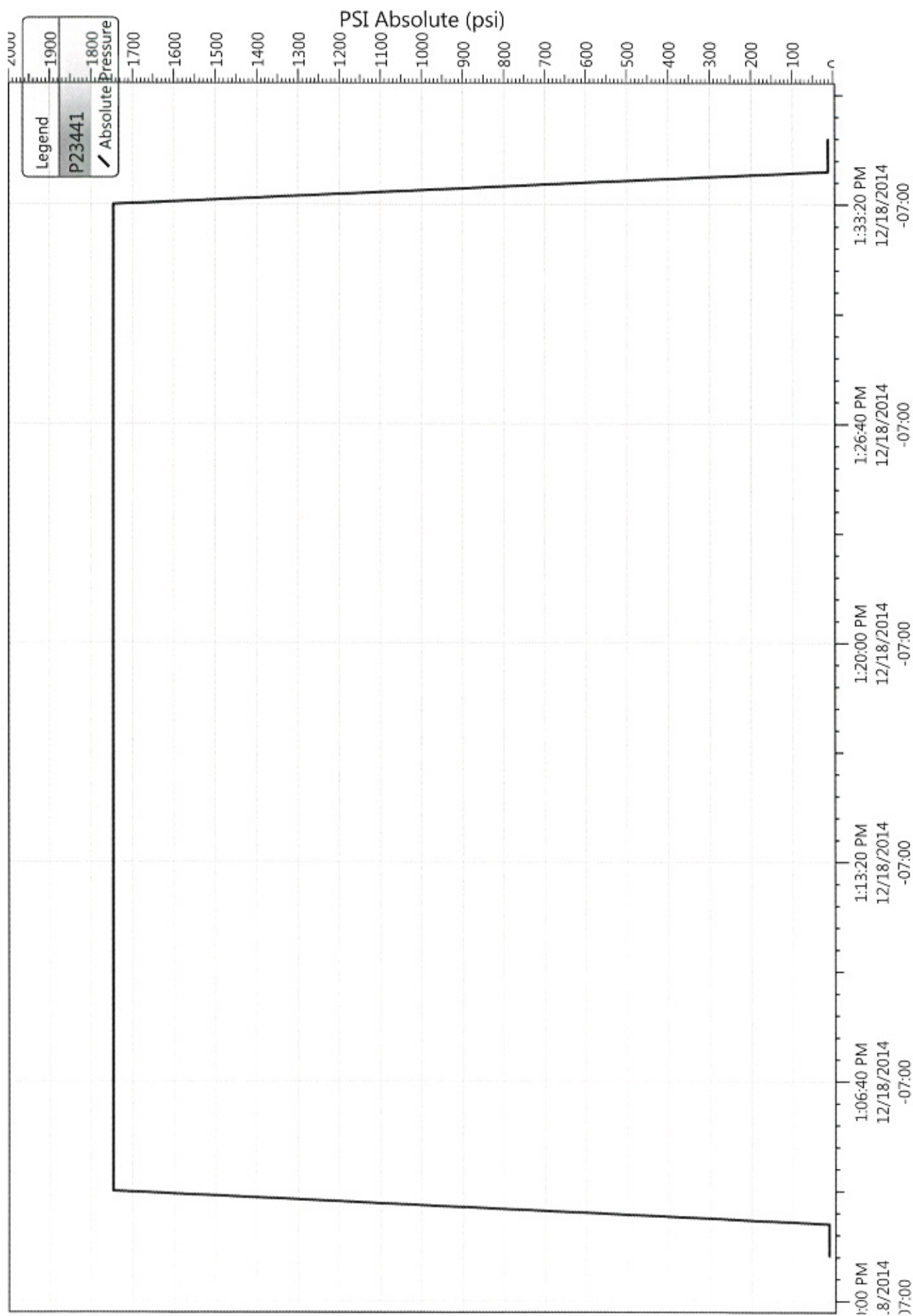
Result: Pass Fail

Signature of Witness: Richard Powell

Signature of Person Conducting Test: Everett Unruh

Federal 15-23-9-16 (12-18-2014, workover MIT)

12/18/2014 12:59:23 PM



## NEWFIELD

## Schematic

Well Name: Federal 15-23-9-16

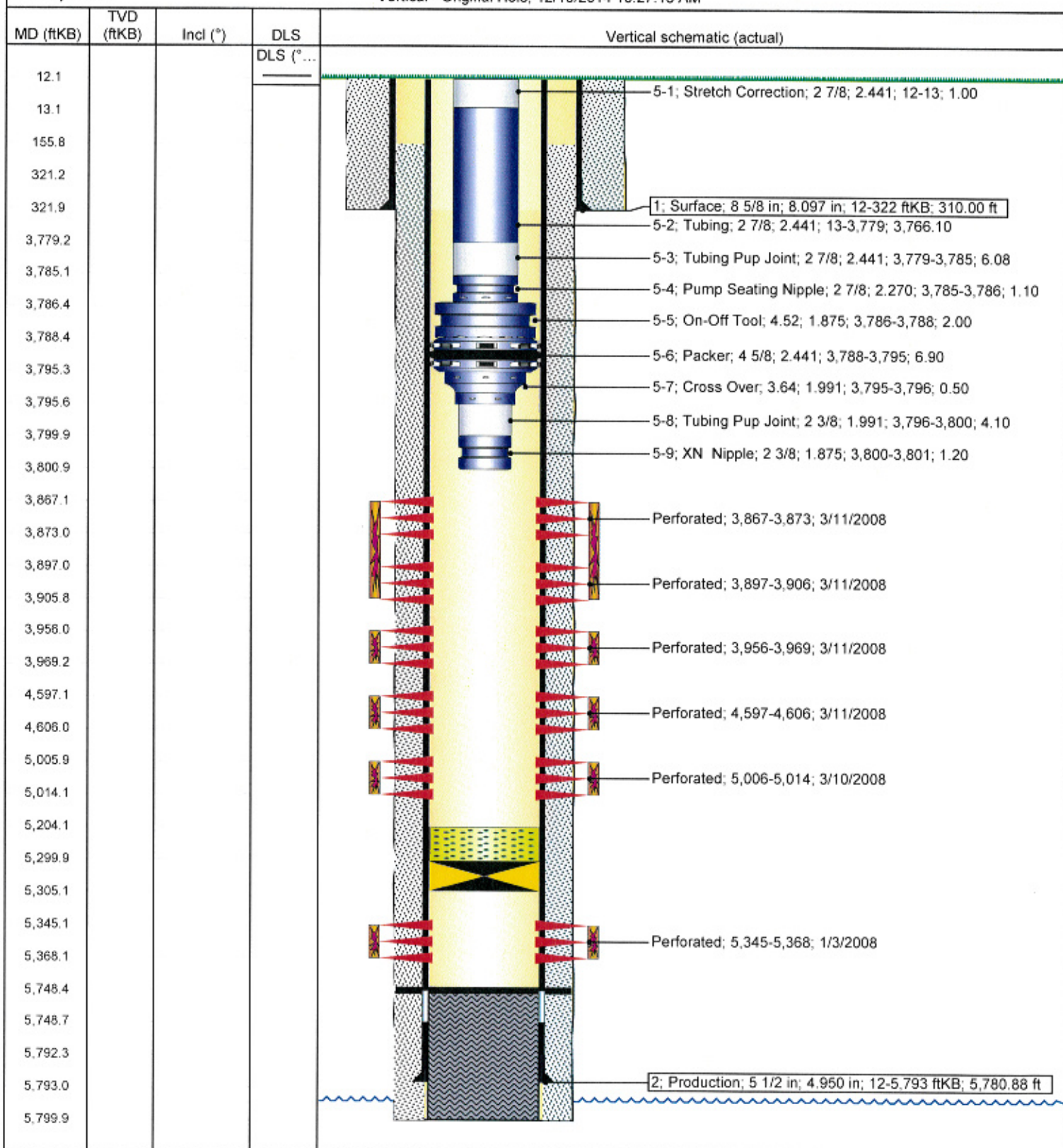
Surface Legal Location 23-9S-16E				API/UWI 43013331820000	Well RC 500159247	Lease	State/Province Utah	Field Name GMBU CTB6	County DUCHESNE
Spud Date 11/26/2007	Rig Release Date 12/12/2007	On Production Date 1/11/2008	Original KB Elevation (ft) 5,796	Ground Elevation (ft) 5,784	Total Depth All (TVD) (ftKB)		PBTD (All) (ftKB) Original Hole - 5,748.2		

## Most Recent Job

Job Category Production / Workover	Primary Job Type Repairs	Secondary Job Type Packer Repair	Job Start Date 10/31/2014	Job End Date 12/18/2014
---------------------------------------	-----------------------------	-------------------------------------	------------------------------	----------------------------

TD: 5,800.0

Vertical - Original Hole, 12/19/2014 10:27:15 AM



**NEWFIELD****Newfield Wellbore Diagram Data  
Federal 15-23-9-16**

Surface Legal Location 23-9S-16E		API/UWI 43013331820000		Lease	
County DUCHESNE		State/Province Utah		Basin Uintah Basin	
Well Start Date 11/26/2007		Spud Date 11/26/2007		Final Rig Release Date 12/12/2007	
Original KB Elevation (ft) 5,796		Ground Elevation (ft) 5,784		On Production Date 1/11/2008	
Total Depth (ftKB) 5,800.0		Total Depth All (TVD) (ftKB)		PBD (All) (ftKB) Original Hole - 5,748.2	

**Casing Strings**

Csg Des	Run Date	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	Set Depth (ftKB)
Surface	11/27/2007	8 5/8	8.097	24.00	J-55	322
Production	12/11/2007	5 1/2	4.950	15.50	J-55	5,793

**Cement****String: Surface, 322ftKB 11/30/2007**

Cementing Company BJ Services Company		Top Depth (ftKB) 12.0	Bottom Depth (ftKB) 322.0	Full Return?	Vol Cement Ret (bbl)
Fluid Description 2% CaCL2 + 1/4#/sk Cello-Flake		Fluid Type Lead	Amount (sacks) 160	Class G	Estimated Top (ftKB) 12.0

**String: Production, 5,793ftKB 12/11/2007**

Cementing Company BJ Services Company		Top Depth (ftKB) 156.0	Bottom Depth (ftKB) 5,800.0	Full Return?	Vol Cement Ret (bbl)
Fluid Description 10% gel + 3 % KCL, 5#s /sk CSE + 2# sk/kolseal + 1/2#s/sk Cello Flake		Fluid Type Lead	Amount (sacks) 300	Class Premite II	Estimated Top (ftKB) 156.0
Fluid Description 2% Gel + 3% KCL, .5%EC1, 1/4# sk C.F. 2% gel. 3% SM		Fluid Type Tail	Amount (sacks) 400	Class 50/50 POZ	Estimated Top (ftKB) 2,978.0

**Tubing Strings**

Tubing Description					Run Date		Set Depth (ftKB)	
Tubing					12/15/2014		3,801.0	
Item Des	Jls	OD (in)	ID (in)	Wt (lb/ft)	Grade	Len (ft)	Top (ftKB)	Btm (ftKB)
Stretch Correction	1	2 7/8	2.441			1.00	12.0	13.0
Tubing	120	2 7/8	2.441	6.50	J-55	3,766.10	13.0	3,779.1
Tubing Pup Joint	1	2 7/8	2.441			6.08	3,779.1	3,785.2
Pump Seating Nipple	1	2 7/8	2.270			1.10	3,785.2	3,786.3
On-Off Tool	1	4.515	1.875			2.00	3,786.3	3,788.3
Packer	1	4 5/8	2.441			6.90	3,788.3	3,795.2
Cross Over	1	3.635	1.991			0.50	3,795.2	3,795.7
Tubing Pup Joint	1	2 3/8	1.991			4.10	3,795.7	3,799.8
XN Nipple	1	2 3/8	1.875			1.20	3,799.8	3,801.0

**Rod Strings**

Rod Description				Run Date		Set Depth (ftKB)	
Item Des	Jls	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Top (ftKB)	Btm (ftKB)

**Other In Hole**

Des	Top (ftKB)	Btm (ftKB)	Run Date	Pull Date
CIBP	5,300	5,305	3/8/2008	
Fill	5,204	5,300	2/16/2010	

**Perforation Intervals**

Stage#	Zone	Top (ftKB)	Btm (ftKB)	Shot Dens (shots/ft)	Phasing (")	Nom Hole Dia (in)	Date
5	GB2, Original Hole	3,867	3,873	4	90	0.430	3/11/2008
5	GB4, Original Hole	3,897	3,906	4	90	0.430	3/11/2008
4	GB6, Original Hole	3,956	3,969	4	90	0.430	3/11/2008
3	C, Original Hole	4,597	4,606	4	90	0.430	3/11/2008
2	LODC, Original Hole	5,006	5,014	4	90	0.430	3/10/2008
1	CP2, Original Hole	5,345	5,368	4	120	0.490	1/3/2008

**Stimulations & Treatments**

Stage#	ISIP (psi)	Frac Gradient (psi/ft)	Max Rate (bbl/min)	Max PSI (psi)	Total Clean Vol (bbl)	Total Slurry Vol (bbl)	Vol Recov (bbl)
1	277	0.84	24.4	2,335			
2	3,080	1.1	29.2	2,844			
3	1,630	0.79	23.5	2,265			
4	1,460	0.8	26.4	1,710			
5	1,585	0.84	26.1	1,930			

**Proppant**

Stage#	Total Prop Vol Pumped (lb)	Total Add Amount
1		Proppant Sand 73000 lb

**NEWFIELD****Newfield Wellbore Diagram Data  
Federal 15-23-9-16**

Proppant		
Stage#	Total Prop Vol Pumped (lb)	Total Add Amount
2		Proppant Sand 40149 lb
3		Proppant Sand 15394 lb
4		Proppant Sand 79237 lb
5		Proppant Sand 25572 lb



## Job Detail Summary Report

Well Name: Federal 15-23-9-16

<b>Jobs</b>		Job Start Date	Job End Date
Primary Job Type	Repairs	10/31/2014	12/18/2014

Daily Operations		24hr Activity Summary	
Report Start Date	Report End Date	MIRU	
10/31/2014	11/30	11:30	12:15
Start Time	End Time	12:15	13:15
Start Time	End Time	13:15	14:30
Start Time	End Time	14:30	15:00
Start Time	End Time	15:00	16:00
Start Time	End Time	16:00	17:00
Start Time	End Time	17:00	18:00
Report Start Date		24hr Activity Summary	
11/3/2014		ND INJ TREE, NU BOP, RIG UP FLR, RELEASE PCKR	
Start Time	End Time	06:00	07:00
Start Time	End Time	07:00	08:00
Start Time	End Time	08:00	08:30
Start Time	End Time	08:30	09:30
Start Time	End Time	09:30	10:30
Start Time	End Time	10:30	11:00
Start Time	End Time	11:00	12:00
Start Time	End Time	12:00	13:00

Comment	MOVE RIG FROM MONUMENT 41-8-9-16 TO LOCATION FEDERAL 15-23-9-16
Comment	SPOT IN EQUIPMENT, LEVEL UP RIG, RIG UP, RELEVEL RIG, STRETCH GUIDED WIRES, FLOWING BACK TUBING TO FLOW BACK TANK
Comment	DROP STANDING VALVE, PUMP 25 BBLS TO SEAT STANDING VALVE @ 3779', PRESSURE TUBING TO 3200 PSI
Comment	WATCH PRESSURE ON TUBING GOOD TEST NO LOST
Comment	BLEED DOWN PRESSURE OFF TUBING, RIG UP SAND LINE LUBRICATOR W/ BABY RED FISH TOOL, RUN IN HOLE W/ SAND LINE (WAXY) TO STANDING VALVE @ 3779', LATCH ONTO STANDING VALVE, COME OUT OF HOLE, REMOVE FISH TOOL & STANDING VALVE
Comment	RUN IN HOLE W/ SAND LINE FOR SAND LINE TAG, TAG @ 5174', 126' OF FILL PBTD @ 5300', 1381' BELOW EOT @ 3793', 160' BELOW BOTTOM PERF @ 5014', 1307' BELOW TOP PERF @ 3867', COME OUT OF HOLE W/ SAND LINE, RIG DWN SAND LINE LUBRICATOR, PRESSURE UP ON CASING TO 1400 PSI, SHUT IN WELL, SHUT DOWN FOR NIGHT
Comment	CREW TRAVEL HOME FROM LOCATION
Comment	CREW TRAVEL
Comment	SAFETY MTG (H2S HAZARDS) SICP 600 PSI. SITP 150 PSI. FLOW TUBING TO ZUBIATE TANK.
Comment	PUMP 25 BBLS FRESH WATER WITH SCAVENGER AND BIOCIDES AT 1600 PSI. FLOWED BACK.
Comment	NIPPLE DOWN INJECTION TREE ADD 8' PUP WITH TIW VALVE NIPPLE UP BOPS (FUNCTION TEST PIPE RAMS BLIND RAMS IN OPEN POSITION) RIG UP FLOOR, TUBING EQUIPMENT. RELEASED PACKER AT 3788. REMOVED 8' PUP JOINT. (H2S PRESENT)
Comment	CIRCULATE 90 BBLS FRESH WATER WITH SCAVENGER AND BIOCIDES.
Comment	FLOW BACK TUBING AND CASING
Comment	PULL OUT OF HOLE WITH 120 JOINTS OF 2-7/8" TUBING J-55, 2-7/8" SEAT NIPPLE J-55, 2-7/8" ON/OFF TOOL, 5-1/2" PACKER (DID NOT NOTICE ANY DAMAGE TO SEALS) CROSS OVER 2-3/8", 4' 2-3/8" PUP JOINT AND X NIPPLE.
Comment	PICKUP OLD X NIPPLE, 4' 2-3/8" PUP JOINT, CROSS OVER, NEW 5-1/2" PACKER (STACKS), 2-7/8" ON/OFF TOOL, 2-7/8" SEAT NIPPLE N-80 AND RUN IN HOLE WITH 120 JOINTS OF 2-7/8" TUBING J-55. ADD 8' PUP DROP STANDING VALVE PUMP 25 BBLS TO SEAT.



## Job Detail Summary Report

Start Time	13:00	End Time	17:00	Comment
Start Time	17:00	End Time	18:00	Comment
Report Start Date	11/4/2014	Report End Date	11/4/2014	24hr Activity Summary
Start Time	06:00	End Time	07:00	IF TUBING PRESSURE IS GOOD WILL FISH STAND VALVE. RIG DOWN WORK FLOOR. NIPPLE DOWN BOP. SET PACKER. NIPPLE UP INJECTION TREE. TEST CASING (MIT)
Start Time	07:00	End Time	08:00	Comment
Start Time	08:00	End Time	09:00	Comment
Start Time	09:00	End Time	10:00	Comment
Start Time	10:00	End Time	11:30	Comment
Start Time	11:30	End Time	18:00	Comment
Start Time	18:00	End Time	19:00	Comment
Report Start Date	11/5/2014	Report End Date	11/5/2014	24hr Activity Summary
Start Time	06:00	End Time	07:00	CHECK PRESSURE IF GOOD DO MIT. RIG DOWN AND MOVE TO LONE TREE 2-21-9-17
Start Time	07:00	End Time	10:30	Comment
Start Time	10:30	End Time	11:30	Comment
Start Time	11:30	End Time	12:30	Comment
Report Start Date	12/10/2014	Report End Date	12/10/2014	24hr Activity Summary
Start Time	06:00	End Time	07:00	Spot Rig in - Rig Up



## Job Detail Summary Report

Start Time	07:00	End Time	08:30	Comment
				SAFETY MEETING (H2S). SHUT IN CASING PRESSURE AT 250 PSI. SHUT IN TUBING PRESSURE AT 300 PSI. FLOW TUBING. WHILE FLOWING TUBING, CASING PRESSURE DROPPED TO 110 PSI. SPOT IN RIG AND RIG UP.
Start Time	08:30	End Time	09:00	Comment
				FLUSH TUBING WITH 25 BBLs FRESH WATER (150 DEG.). WHILE FLUSHING CASING PRESSURE WENT UP TO 300 PSI. DROPPED 2 7/8" STANDING VALVE PUMP DOWN WITH 15 BBLs WATER. PRESSURE UP TUBING TO 3050 PSI. WHILE PRESSURE UP CASING PRESSURE DROPPED TO 110 PSI.
Start Time	09:00	End Time	09:30	Comment
				TUBING PRESSURE AT 3050 PSI, CASING PRESSURE AT 110 PSI.
Start Time	09:30	End Time	10:30	Comment
				TUBING PRESSURE AT 3150 PSI, CASING PRESSURE AT 110 PSI.
Start Time	10:30	End Time	11:30	Comment
				CASING PRESSURE AT 110 PSI. TUBING PRESSURE AT 3150 PSI. BLEED CASING TO 0 PSI. SHUT CASING IN. TUBING STILL AT 3150 PSI. MONITOR PRESSURES.
Start Time	11:30	End Time	12:00	Comment
				TUBING AT 3150 PSI CASING 0 PSI. BLEED TUBING PRESSURE TO 1500 PSI.
Start Time	12:00	End Time	12:30	Comment
				CASING AT 0 PSI TUBING AT 1500 PSI. BLEED TUBING PRESSURE 600 PSI.
Start Time	12:30	End Time	14:30	Comment
				CASING PRESSURE AT 0 PSI TUBING AT 600 PSI. PRESSURE CASING TO 1500 PSI. TUBING AT 780 PSI. AT 1 PM LOST 50 PSI. AT 1:30 PM LOST 50 PSI. AT 2:00 PM LOST 50 PSI. AT 2:30 PM LOST 50 PSI (LOST 200 PSI IN 2 HOURS).
Start Time	14:30	End Time	15:30	Comment
				FISH OUT STANDING VALVE AT 3779'. NIPPLE DOWN INJECTION TREE. NIPPLE UP BOPE. RIG UP WORK FLOOR.
Start Time	15:30	End Time	16:30	Comment
				FILL CASING AND TEST CASING UNDER PIPE RAMS. 1500 PSI. 10 MINUTES LOST 20 PSI.
Start Time	16:30	End Time	17:00	Comment
				CASING LOST 0 PSI (1480 PSI). SHUT IN WELL WITH PRESSURE FOR THE NIGHT.
Start Time	17:00	End Time	18:00	Comment
				CREW TRAVEL
Report Start Date	12/11/2014	Report End Date	12/11/2014	24hr Activity Summary
Start Time	00:00	End Time	01:00	Comment
				CREW TRAVEL TO LOCATION
Start Time	01:00	End Time	01:30	Comment
				SAFETY MEETING (TRAPPED PRESSURE). SHUT IN CASING PRESSURE 1400 PSI. SHUT IN TUBING PRESSURE 450 PSI. BLEED PRESSURE OFF OF CASING
Start Time	01:30	End Time	04:00	Comment
				PRESSURE BUILD UP ON CASING WITH 450 PSI ON TUBING. RIG DOWN WORK FLOOR. NIPPLE DOWN BOPE. NIPPLE UP INJECTION TREE.
Start Time	04:00	End Time	05:00	Comment
				PRESSURE TEST CASING TO 1650 PSI WITH TUBING FLOWING TO TANK
Start Time	05:00	End Time	05:30	Comment
				CASING STILL AT 1650 PSI. CALL FOR MIT.
Start Time	05:30	End Time	06:30	Comment
				RIG UP PUMPER (EVERETT) FOR MIT. CASING LOST 39 PSI IN 30 MINUTES.
Start Time	06:30	End Time	07:30	Comment
				NIPPLE DOWN INJECTION TREE. NIPPLE UP BOPE. RIG UP WORK FLOOR AND EQUIPMENT

## NEWFIELD



## Job Detail Summary Report

Well Name: Federal 15-23-9-16

Start Time	07:30	End Time	08:30	Comment
				RELEASE PACKER AT 3782' AND PULL OUT OF HOLE
Start Time	08:30	End Time	10:00	Comment
				LAY DOWN PACKER (NO VISIBLE PROBLEMS), ON/OFF TOOL, AND PUMP SEATING NIPPLE. PICK UP REDRESSED PACKER WITH TAILPIPE ASSEMBLY, REDRESSED ON/OFF TOOL, NEW PUMP SEATING NIPPLE, NEW 6"X2 7/8" J-55 PUP, RIH WITH 120 JTS 2 7/8" J-55 TUBING(CHECKING EACH COLLAR WITH POWER TONGS AND REDOPING).
Start Time	10:00	End Time	10:30	Comment
				RIG DOWN WORKFLOOR AND EQUIPMENT. NIPPLE DOWN BOPE. NIPPLE UP INJECTION TREE.
Start Time	10:30	End Time	11:00	Comment
				HOT OILER PUMP 65 BBLS FRESH WATER WITH PACKER FLUID
Start Time	11:00	End Time	11:30	Comment
				NIPPLE DOWN INJECTION TREE. ADD 8' PUP. SET PACKER AT 3801' WITH 15,000# TENSION.
Start Time	11:30	End Time	12:00	Comment
				NIPPLE UP INJECTION TREE. SHUT IN WELL FOR WEEKEND WITH 0 PSI
Start Time	12:00	End Time	12:30	Comment
				CREW TRAVEL.
Report Start Date	Report End Date	24hr Activity Summary		
12/15/2014	12/15/2014	CHECK PRESSURES. TEST CASING AND TUBING. IF ALL TEST RIG DOWN		
Start Time	06:00	End Time	07:00	Comment
				CREW TRAVEL TO LOCATION
Start Time	07:00	End Time	08:00	Comment
				SAFETY MEETING( STATE OF MIND). SHUT IN CASING PRESSURE 0 PSI. SHUT IN TUBING PRESSURE 450 PSI.
Start Time	08:00	End Time	10:00	Comment
				FLOW TUBING TO TANK. PRESSURE TEST CASING TO 1500 PSI. MONITOR PRESSURES.
Start Time	10:00	End Time	11:45	Comment
				0 LOSS ON CASING PRESSURE WHILE FLOWING TUBING. CALL FOR MIT
Start Time	11:45	End Time	12:30	Comment
				RIG UP PUMPER (RILEY). TEST CASING (MIT). START PSI 1424 PSI. END 1424 PSI (0 LOSS).
Start Time	12:30	End Time	13:30	Comment
				bled pressure on casing. inject on tubing while pumper monitors tubing. pump 20 BBLS FRESH WATER AT 2.5 BBLS PER MINUTE (PUMP PRESSURE AT 1450 PSI). 0 GAIN ON CASING PRESSURE. PUMP 10 BBLS AT 1.5 BBLS PER MINUTE (PUMP PRESSURE AT 1500 PSI). 0 GAIN ON CASING
Start Time	13:30	End Time	14:45	Comment
				RIG DOWN PUMPER. PRESSURE CASING UP TO 1500 PSI. RIG DOWN RIG AND LOAD TRAILERS. GET EVERYTHING READY TO ROAD
Start Time	14:45	End Time	15:45	Comment
				ROAD RIG AND EQUIPMENT TO FEDERAL 9-33-8-18.
Start Time	15:45	End Time	16:00	Comment
				SPOT IN EQUIPMENT.
Start Time	16:00	End Time	17:00	Comment
				CREW TRAVEL
Report Start Date	Report End Date	24hr Activity Summary		
12/18/2014	12/18/2014	CONDUCT MIT		
Start Time	13:00	End Time	13:30	Comment
				On 12/12/2014 Richard Powell with the State of Utah was contacted concerning the MIT on the above listed well. On 12/18/2014 the csg was pressured up to 1746 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tbq pressure was 400 psig during the test. There was a State representative available to witness the test - Richard Powell.

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>			
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-15855			
1. TYPE OF WELL Water Injection Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:			
2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY		7. UNIT or CA AGREEMENT NAME: GMBU (GRRV)			
3. ADDRESS OF OPERATOR: Rt 3 Box 3630, Myton, UT, 84052		8. WELL NAME and NUMBER: FEDERAL 15-23-9-16			
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0803 FSL 2162 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSE Section: 23 Township: 09.0S Range: 16.0E Meridian: S		9. API NUMBER: 43013331820000			
10. FIELD and POOL or WILDCAT: MONUMENT BUTTE		COUNTY: DUCHESNE			
STATE: UTAH					
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA					
<b>TYPE OF SUBMISSION</b>  <input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:  <input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 12/18/2014  <input type="checkbox"/> SPUD REPORT Date of Spud:  <input type="checkbox"/> DRILLING REPORT Report Date:	<b>TYPE OF ACTION</b>  <table style="width: 100%; border: none;"> <tr> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ACIDIZE  <input type="checkbox"/> CHANGE TO PREVIOUS PLANS  <input type="checkbox"/> CHANGE WELL STATUS  <input type="checkbox"/> DEEPEN  <input type="checkbox"/> OPERATOR CHANGE  <input type="checkbox"/> PRODUCTION START OR RESUME  <input type="checkbox"/> REPERFORATE CURRENT FORMATION  <input type="checkbox"/> TUBING REPAIR  <input type="checkbox"/> WATER SHUTOFF  <input type="checkbox"/> WILDCAT WELL DETERMINATION         </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ALTER CASING  <input type="checkbox"/> CHANGE TUBING  <input type="checkbox"/> COMINGLE PRODUCING FORMATIONS  <input type="checkbox"/> FRACTURE TREAT  <input type="checkbox"/> PLUG AND ABANDON  <input type="checkbox"/> RECLAMATION OF WELL SITE  <input type="checkbox"/> SIDETRACK TO REPAIR WELL  <input type="checkbox"/> VENT OR FLARE  <input type="checkbox"/> 81TA STATUS EXTENSION  <input checked="" type="checkbox"/> OTHER         </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> CASING REPAIR  <input type="checkbox"/> CHANGE WELL NAME  <input type="checkbox"/> CONVERT WELL TYPE  <input type="checkbox"/> NEW CONSTRUCTION  <input type="checkbox"/> PLUG BACK  <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION  <input type="checkbox"/> TEMPORARY ABANDON  <input type="checkbox"/> WATER DISPOSAL  <input type="checkbox"/> APD EXTENSION            OTHER: WorkOver MIT         </td> </tr> </table>		<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> 81TA STATUS EXTENSION <input checked="" type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: WorkOver MIT
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12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  The above subject well had workover procedures performed (packer repair), attached is a daily status report. On 12/12/2014 Richard Powell with the State of Utah was contacted concerning the MIT on the above listed well. On 12/18/2014 the csg was pressured up to 1746 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tbq pressure was 400 psig during the test. There was a State representative available to witness the test - Richard Powell.					
Accepted by the Utah Division of Oil, Gas and Mining <b>FOR RECORD ONLY</b> December 23, 2014		Approved by the Utah Division of Oil, Gas and Mining			
Date: 1/7/2015 By: <i>[Signature]</i>					
NAME (PLEASE PRINT) Lucy Chavez-Naupoto	PHONE NUMBER 435 646-4874	TITLE Water Services Technician			
SIGNATURE N/A	DATE 12/23/2014				